



SEQUENCE LISTING

<110> Nehls, Michael
Zambrowicz, Brian
Sands, Arthur T.

<120> NOVEL HUMAN POLYNUCLEOTIDES AND THE POLYPEPTIDES
ENCODED THEREBY

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<160> 503

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ttggcagatg gagcatatca tgggttaatt tctcagcatg tcacagaaag caattcctac 180
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<211> 495
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<213> Homo sapiens

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acatggacac ttatacacgg atttttctca ataaaagtga cacc 104

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<213> Homo sapiens

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<211> 443

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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acatcagctg cggttcttta atgcatgtga taaggaagca cgtatattag aagtttgggt      180
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473

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gcttcttcaa aacaaagtaa atgaaaattt cagtggctcc agcagtcggg actgttaggc 360
atgaaacaat gagaagtacg aaataaatct tatatgcttt tttataattt agtaacccat 420
taaaaatcc 429

<210> 45
<211> 489
<212> DNA
<213> Homo sapiens

<400> 45
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ctggactatc aacaaaggat cttctcaatc aattcaccac tagcaacaga atgcaggcgg 120
ttctcagaaa tggctcacia agaaacacaa aaaaaggntg tctgaangna aaancnagaa 180
aagggtccct tcnnnaaaan gnaaatggan cnttnancnt ttttnggggn gcagaagtgc 240
cacggnctn tnantgcggg taattnaaan agggncanaa cactttcttc aggccaccn 300
agggangttt tatattnccc atataaagan acaaattccc acantgtgcc ttccttgngg 360
tntntccaac tctttgccaa caagaggcca acccgggngg ggccccncc aggggaaaaa 420
aaccttttgg ggngganccc cttttgggca ntgccaangn ctttttgaca tttcaccggc 480
gggaagaga 489

<210> 46
<211> 358
<212> DNA
<213> Homo sapiens

<400> 46
ggatttcaga cnaaattcag ggattcttcc cncccaaga ctgtggttca gaccacggtg 60
acgtcttcca ggcaccagga agaaatacga ccaacctccg taacaaatga gagaaacttc 120
acctgactgt gttttgtgca tttggnttat gagncgtttt aaaaacgtgt acttttactg 180
ctgcgttcag gttttcagcc atagaatatt ctagaaaaaa atagtataaa cattttattc 240
accgctataa ccctgaatgt gtagctgtgt tttttaaaaa aacatttttt tacaattgta 300
gaatatgtaa catgcctcca gaaacgtgcc ctaaacacaa atatataatt tggcaaat 358

<210> 47
<211> 177
<212> DNA
<213> Homo sapiens

<400> 47
gaaaagctga agatggtcag acctgggtggc acacacctgt aatgccagca cttttgtgag 60
gccaaggcag gtggatcgct tgagcccagg aattcaagac aggcctgggc aacacagcaa 120
gaccttgtct ctataaaaaa ataaaaaata aaaataaaaa taaaaaaaag atcagtc 177

<210> 48
<211> 536
<212> DNA
<213> Homo sapiens

<400> 48
gacgtctggg gagctcctgc nntanntnac actctggnag aacctatggc tcatgaatca 60

cccccttggc	ccaaggatga	gtacccacag	cagcaagctc	ttccattgga	aaccacgctg	120
aggaagacat	ggtcaagctc	tggcagcaga	tcaagctggt	atggcaagaa	ttcctgggtc	180
tgcgtcccca	gcatgtaata	tagaagatct	gggagtgggg	tcttgggtct	gtaatgtctg	240
tgatatggct	cctcacatct	tcttgtgtag	agtgtcatgg	ccaaaacagg	aataaccgtg	300
tttgcccttc	tgaattcccc	agtaatgagt	ctgaagctag	tctgaagcta	ccacagtcta	360
ttttaaggga	ttccataaca	tgtttgaatt	atatctatat	ggnagggact	ttcaatcagt	420
agccaagatc	tgntactaaa	attaaatncn	caatttaatt	tccacaagct	acatacctcc	480
cttcanaggc	ctgccaaaat	tnttaatgga	ggacaatgaa	agttcgtaac	cttctt	536

<210> 49
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 49						
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attgtcctct	caaagccggg	tcacttggtc	tcaagacact	ttatgtcgag	ccacagctac	120
ttcatgtact	gggagcacca	ctcctgaaga	agctgactca	gcttcaatgc	aaggaagaaa	180
gtctgactag	ttaggtggaa	catgggatct	gtaaagcatg	gtgctgtgcg	agaggtgggtg	240
gaatgcatgg	gcaaattgatc	tctggagact	ctagcaatca	ttccgaagtc	tgtgttcaag	300
cagtaacaa	acagcacact	cagtaaccag	tattcttgta	aagatggagg	atggtaatta	360
cattctgtga	ctag					374

<210> 50
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 50						
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tcaccagaaa	ccaaccctta	ctggcacctt	aatcttggac	ttccagtctc	cagaactgat	120
gcagtagaaa	tgaggccatg	tgactctcca	cgctggagga	ggacaggcac	tgaggcttcc	180
gccagctcgc	tcttgccttg	gtgatgcctg	cccttggaac	ccagccaccg	taccgtgagg	240
aagccaagca	gccacgtgga	aaggccatta	caggtgttcc	agccacagtt	ctcatggagg	300
tcccagctaa	tagctggcat	cagctgccag	acatcacacg	gtgagggaga	ctgcacaaga	360
ttctagcctc	cgccccctgga	tgtctcaact	ttgaaccagc	ccacctcact	tgagtgccgc	420
agagagaatt	gagtattatt	gctgaactct	gccccaaagt	cagtttgat	gcaaaatact	480
tcttccctta	ttttaaaagt	ataacttttt	ggagagactt	ttttacacaa	caagtagata	540
atggaacaaa	tactacttat	gattttttgca	gagtaaatcg	gcttctcgct	tttcc	595

<210> 51
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 51						
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ggagtctgca	ttaaaaacac	tactctgggt	agagataaag	aaagggactc	tctgagatga	120
gggaaaagca	gtgggtttcta	atctgtgggt	cagagatctc	tgctgggatg	aagaatatgg	180
agggagaaac	aagagttatt	gtaaagggtc	tacaaagctc	tacgtatgca	aagcactatc	240
tatagactga	ataaataagt	cttgccact				268

<210> 52
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 52						
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<210> 53
 <211> 419
 <212> DNA

<213> Homo sapiens

<400> 53

tctcaatacc	ttcacagagg	tgaagaagca	gcaaccaa	gaattagaca	gcaacatgat	60
tcctagagaa	tggcaagacc	aattcttcaa	ctacttcttc	agcatttctg	aaacatatgg	120
aagatggccc	attgtgctct	cttaattctt	tgataatctg	gacattgact	ttccattat	180
atgacctggg	cttgtgggca	tcattgtcata	atgcacctgt	tcagacatct	ccctgtacca	240
atatggatca	cttgaagaga	ctcctttgcc	tccatcaaaa	aggatacagn	tgtgtatctc	300
ttccattttt	gnttacagng	cctaaaatta	tttgagcagg	ttttcacctc	ttctctgaat	360
aaacacctta	ttagtcctta	aaangaaang	aaaaagggaa	aataaaaactt	ttaaatgca	419

<210> 54

<211> 450

<212> DNA

<213> Homo sapiens

<400> 54

ggncgaggca	gaaccaaacc	atggatacgg	gtcctttgct	caaattcttc	tcaatgaaga	60
ctctgtgatg	aagaggccac	ttccatttaa	aggcagcgac	acttagaaaa	tcacaggcat	120
taaaacttag	aagaggtcac	cttatccaac	gtcccagcca	gcacagccat	cctttcacag	180
catccatgac	attcagcctc	ctctcagaca	tgggaagatc	acctcttcat	gaaacagcag	240
attcttcaag	gataaggaaa	tggaggaaca	aagcagtga	gtaatctgtc	caaagcccaa	300
aagttgaatt	gttgaaactg	acatctgaaa	gcaagtagcc	tggcttcaga	gtatatgctt	360
ttaatcgctg	tgttatatac	tgctcttta	tatgtgataa	tatagtatat	ttattaagtt	420
attaaaagaa	acataagttt	ctttgttgct				450

<210> 55

<211> 172

<212> DNA

<213> Homo sapiens

<400> 55

ggactaagga	ccactaacia	cagatccaag	aacacatgta	atgcaaacca	ggtattcata	60
tgctcttgac	attttcaagc	ctaaagatca	agagccatca	tcttttacia	gagttgcagt	120
ttggtcttaa	cctccaaaaa	agaaacttct	aataaatact	atttccttct	gt	172

<210> 56

<211> 211

<212> DNA

<213> Homo sapiens

<400> 56

agagtttggt	gctaaacatt	taccagcaca	ccctaaagag	aggagaaaaa	aatatgtgaa	60
gaaaaagaaa	aaaggagaaa	tcaaagaaa	agaaagcaaa	aagagcatat	ttggatgtgg	120
aagaagaaaa	agacaagttg	aactgtctta	aattccagcc	catgaaagcc	ttcctttttt	180
taaataaagt	ttttgttttg	ttttgggtcg	g			211

<210> 57

<211> 328

<212> DNA

<213> Homo sapiens

<400> 57

taccatgggt	tnttgaatnc	agcttngctt	tcacaaaaac	ccgatcatgc	tnggcaccct	60
aatttcaaat	ttccagcctc	cagaactgct	ccaagaaatg	gaattttatt	aaaagatgga	120
agaggaggat	atttgagaga	aggggaacta	cctaatactg	aaaactaata	cagtccagga	180
tacatagaag	atgatcaata	acacttatcc	aattctaaatt	accctatcag	caagtggaga	240
gttctctctc	gggagtgtg	ttttctttcc	tgccagtcag	ctctgtcagg	ttgaatagaa	300
agcgataaat	aaagaggaaa	agaattcc				328

<210> 58

<211> 208

<212> DNA

<213> Homo sapiens

<400> 58

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catgtgatat	ctgcacttgg	aggctcctct	tctctttctg	ccatgaatga	aagcagcttg	120
agaccctcac	cagatacaga	tgctggtgcc	atgctctctg	tacagcctgt	agaccatgag	180
ccaaataaac	ctgttttctt	cacaaatt				208

<210> 59

<211> 334

<212> DNA

<213> Homo sapiens

<400> 59

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agacaaagtc	tcaaagagac	tccgttttgg	tcaacaatta	gcccttccac	atttggatcc	120
tgggccacat	gtggaaataa	agagttccag	aagaattctc	ccatgaaggc	attggaatgc	180
ttcaatacat	agttttgtgc	caaatctaca	ataatcttcc	caaaagaaag	actcttcagt	240
gttctggatt	tttcgggact	tntcttattt	tcttgtgcaa	catcttaaca	caaactagaa	300
taaagatgac	atataatcat	ctgcattcat	gaat			334

<210> 60

<211> 177

<212> DNA

<213> Homo sapiens

<400> 60

aaagctggtc	gttaaacatt	tactaaaaca	ccactggata	caagtgacat	catacaagat	60
ccagtcacctg	caaccactga	tctgcctcct	ccctctatgg	cgtcacctgt	ttggaacatt	120
tcatgtaaat	ggaaccatac	aagatgtgac	cttttgtgac	tggtctctct	cacttgg	177

<210> 61

<211> 381

<212> DNA

<213> Homo sapiens

<400> 61

ctgcaatggt	cctagagaga	agccagcact	cgccagatct	ttggccaccc	cgaggtgtcg	60
tgtgcataag	ggaagatgag	aggctgggtg	acgcccaccc	ttcaccagtt	ttgtaaataa	120
caagctggcg	ccccagaacc	catccacagc	agctttttca	gtggcattat	gcattcgtgg	180
tgcaagcatc	cttactgtgc	ttcaatcagt	ggcttcagtc	gtggccggcg	cacactgatg	240
gagtttcttc	ctcgtcgcgg	gtcatatttt	cctctttgca	tgtctgatga	cttttgatta	300
gatgcaggcg	ttgttcactt	tccctgttga	gttctgagta	tatttgcatt	cctattaaat	360
atccctgngt	tttgcctctg	g				381

<210> 62

<211> 141

<212> DNA

<213> Homo sapiens

<400> 62

gaaataaggg	accctggcat	ggatggagca	tgtgaaacta	tcaagaacag	tgaaatgttt	60
cagatttttg	ctatttgcca	gtttcgtttc	atgaatgctg	gcagaagacg	cctgaatcaa	120
agataaaggc	tgtttttact	c				141

<210> 63

<211> 581

<212> DNA

<213> Homo sapiens

<400> 63

atgtgcagcc	tgtcaccaac	accaggaagc	tcagagacgt	gccacctgga	aaggaaatca	60
gacaggagag	ctcagggtcg	aagtcggccc	ggcgccttgg	agctccaagg	ggacaaatgg	120

agcccaggtt	caaccgcagc	cagggaggca	acgtctgtgc	acctgcaact	tcccatggca	180
ttgcccact	caatggtca	agaacctgcc	ctgtcctgct	tggggcccag	cattccatcc	240
tctgaaagaa	cacgagcgtc	cccacatgct	ccgtagggac	catcctgcct	ctgccctccc	300
cacttcacca	gaagaactcc	tctcctcct	tctggggccaa	cttggcagca	actcctccgg	360
gaagccttcc	ttgtctctcc	aagacacgga	caggcacccc	tcgtacgtgc	caatagcatt	420
cccacagca	gttgtcacac	acacaaggct	catgacctcc	ctccccacct	gtgccccag	480
gggaggggct	tncttggggg	cagggccatt	tcgtcgtcat	cttccagcac	cacacacact	540
cggtttgctg	aatgcttnct	aaataaatcc	ctgccaatg	c		581

<210> 64
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 64						
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tggtgctgag	aacacttggt	cccacttctc	tagcaggcaa	ggatctgggc	aggacaacaa	120
ccacagccat	gtgctttctc	atcatgtgat	gtcatctgcc	aggtcatgat	gcagcaagaa	180
ggccctcacc	agatgccacc	cctccagaac	catgagccaa	ataaatgtct	gttctttata	240
aatg						244

<210> 65
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 65						
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gcctgtggcc	ttccagctat	tcagtcaaca	gcatatgaaa	atgcagttca	ttaaaagtaa	120
accatccaag	tcacctgttc	actgtggctt	cctgtcagga	gggacagttt	agatgacttc	180
ttggagcctg	tcaactcgta	ctgcactgat	ggtatcagat	gcaagctggg	gaatttggaa	240
tgctatctgc	aatagtgaca	tctggtggct	tctaagttct	actgcacctc	cttaaggcag	300
gaaagcaagc	ctggctttta	agcagtattt	gtgaaaaaat	aaaggaatta	catgagtctt	360
gg						362

<210> 66
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 66						
ggtctatgct	acaccacctt	ntgcttacac	cgaaacaaaa	gcgngtggag	ggagctgagc	60
ccagagaggg	atgatgcagg	ctcttccaga	acctgtgtcc	tatgcctcaa	gccttctttc	120
cctcctgctc	gctgacaact	gctgaagcag	aaactaagat	tacgacacta	ggtggcagca	180
tnatcccacg	ggaagacaac	ttgagtttgg	ggagaccacc	ccccgccaaa	ctcaacacaa	240
tttgagaggg	ctccacgaaa	aagaccagcc	cccaaataac	agggagactc	tgcaatgctt	300
ggtttccagt	gatgatcaac	actttaaggg	ccaatggaat	tcacccttac	aggggaaagg	360
ggaccgttga	antancttg	ggnngggagg	ggcatgctcg	agaaacccta	cctaattgc	418

<210> 67
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 67						
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tcaaaaagatg	agtaaaaggaa	agtctgctat	tttcagagtc	cacttgctct	gagctggttt	120
tcttctaaac	cacatcacaa	aagagcacga	tgtgtgaac	ctctcctttg	gactcaagtg	180
tactaatggg	gaggaatggc	aagttacatg	cattatttct	ggattctata	aaaatgaaag	240
tgatgggaat	taaaaataag	ttcathtaata	ttgtaattta	tagttctgaa	gagcttttagc	300
aaataaacta	aacattccaa	at				322

<210> 68

<211> 317
 <212> DNA
 <213> Homo sapiens

<400> 68
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 ggtggggcgc atgcccgcga ctggactgaa agctgagtca caggaatcgt acccctgcag 120
 cgggccaggc cctccagggg gggacaccgc gcccttggtg ggagatgtcc acagtagaca 180
 aaggcagttt cgaaataaaa gaatgcctgt caccgccagg gccaccccgga cccttagtta 240
 ttatgcactg gtccccaaga gcaatttctg cgctgctggt gcaaaaattc atcgtaatga 300
 aataaacgta aaagggg 317

<210> 69
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 69
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 ggaggcacia aagtcccatg cggagagaga agtcggtaac tacgcctgtg accgggagag 120
 gccggacttg ctctccttcg cctaggtttg cactcagagc aagagagaa ataggagaga 180
 ggaagagaga aaggtaccgt cctgacaggt actttcctgg ctatcacaga aagaacaagc 240
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 gacactttga agtgacaccg ggacccaagg gttctcaagt tcattatttg tgaagaaatg 480
 gngcttgntt ctgtgatctt tctctgctct gaaatactac aggccttaan ctagatgccc 540
 tttggaggnc tttcctggat caacagatgg aggacttttc aaaagcagac gaaagtgaat 600
 gggatcactc acacctctgc ttccggacaca gngaagccca gatggagaag aaagaaaact 660
 tgncaaaagc tatacttg 678

<210> 70
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 70
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 atcccagagg agaagccatc tgagatcggg aggaggagaa atggaacatc aggcggagga 120
 aacagcccag acaatcgcac tgggacgtga aaacccttgg gctgcatgcg gggagaaaac 180
 cagaattggg gatggttagg gttttggagg gaaacacagg gacatgtgac caaaaataat 240
 aataactact gttactt 257

<210> 71
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 71
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 atgtctttag agacttagaa aagaccagca agcttcttta caaaatgggtc tcttcaatcc 120
 tggcatccac ttgggaccaa tgagatggga tgttcacact catagatttt cacatatgta 180
 tctttaatgg tatccccagg agcctctgaa gtgcacagc actttatttc aatgaagttc 240
 aactaagcc aaaacaagg atgccttatt caatttcttg tgtccatta cactcagctt 300
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 cctactttatc agattggcaa aaannaaacc aggtcataaa accccttttg gtaaatatat 420
 ggaaaaaaca catcttttta tatgcattgn catatatata tacatatata tgctgcatta 480
 atatatatac t 491

<210> 72
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 72
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tatacagtgc aggaatacag ctaagacacc acacccgagt actaacatct gcaaattctg 180
aaaagctcct cataat 196

<210> 73
<211> 511
<212> DNA
<213> Homo sapiens

<400> 73
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aacaagtcag tctcaaacat aacaacagac actggggagc tctccaacaa aagatcacct 120
cccaaagaac aggatggtgt cgaagactga atgccagcct gaggaacag aaatactaca 180
gaagcacgcc agagcctgca gtgtctcctc gctgcctctc aatgaactgc taaaagacca 240
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tcntttntc cttaggggnt anaacnaag ccanaaggg ttcattccaa ggnaaccctt 480
aaggcagttt natgatccct ttcaacctt t 511

<210> 74
<211> 499
<212> DNA
<213> Homo sapiens

<400> 74
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ccggcctcat ggcctttggg ggttgtcgtg tggaatggag atgacacgag tgctgcatgt 120
gaggtcagtc aggatctttg attttggagc acaagccttc tgcgtgctac tgactgggtc 180
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accagatct gcgttctcca cctgntgnca catgaagcng gggnggtnaa aacagaccng 420
ggaantggnt acctcattac aatgccccnc tgactggnt aanttccna naggggttat 480
tggccatttt gttcaatga 499

<210> 75
<211> 427
<212> DNA
<213> Homo sapiens

<400> 75
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ccagtcttat ctccgtcctt atcaccacct taccatgtca tcctggcgaa gatgccatca 120
caggagttag ggttgaagtc cagggttaag gtgcatctag atgggttccc aggacgcctg 180
aagtagcctc aagaggccca aaagaaaaag ctctctggc acagtctcct aatggtgaca 240
aaggagtccc tctcatctgc ttggcagcct tacaatcaga gcgttcttac atctaacct 300
attatttccc actgaaattc aaacctaat cattttattt ttatttctta taaaaatgaa 360
aaacatcact gnggcaagta acttgctcaa ttctnaciaa aaaaataaan aaaagggtgt 420
tggattc 427

<210> 76
<211> 286
<212> DNA
<213> Homo sapiens

<400> 76
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caccacaaag gaagataata aaaccatac gggagaaaac agagccacag atggagacag 180
tcacattcct ggtgacagtg tttgagcacc tggatccagc ccaacctgag gccattttct 240

cctaggcttt ttagatctgt gaaccaataa atccccgctt taggag

286

<210> 77
<211> 279
<212> DNA
<213> Homo sapiens

<400> 77
cttcattctct ccccggttaca gaccaggaat tccaaattcc tagcccaagg tcagagaggt 60
ctcactgatg cctgtgtagc cacgtgagga tgggaagtct catttgccag taagcactac 120
aggaagtgat ggttgaacac gatgggacta ataagaagga aacgtagtta gagtgatctt 180
attcatttaa aaacaaaagc agcaacaata cagcagtcga ggaaaagaat caattctatt 240
taagcaaaagc aatttaaagt aataaaaaat gtttccagc 279

<210> 78
<211> 481
<212> DNA
<213> Homo sapiens

<400> 78
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attggcatca tgtctccaac attctgaagc caaggctgag gatatacaag gtctggaatc 180
attaagggtg tgataaagtg ctgagaaaaca caggagaatg cattgttcag tgaatgaaaa 240
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tttaactctc aggatgtttt ctctacctg gatggacaca attttctgtg gnggtacatg 360
ataagtattg gctgggggtga ccattccatt tncctggnccg cccaaggana ttttignaang 420
taacanaaaa gggccatnat attttccttc tctaactctg cttggancaa gccctaaaat 480
g 481

<210> 79
<211> 200
<212> DNA
<213> Homo sapiens

<400> 79
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tcacacccag gatttgtgtc tccagtgaag agcagcaatt tatcctacac tgaaaatttc 180
ctgaataaaa acagttcacg 200

<210> 80
<211> 239
<212> DNA
<213> Homo sapiens

<400> 80
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cagaaagtga agtctcgcaa aggaaaaaga caagactaaa ggaataaac catcgttgtg 180
tgggcttttt ctccactca gcattctctc ccttattaaa atgagaggga taacttaag 239

<210> 81
<211> 495
<212> DNA
<213> Homo sapiens

<400> 81
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gaaagtcca caagcacact ttgttcagtt ctgcagctta ccaggaacac tagaaagcac 180
tcagcactg tgcctggggg ccatttgaaa cagcaaaatc atcaacaaaa accacaaaaa 240
tgcaaaaacc atggcactaa atagaccatg aaaaggacac ctgtttactg catgacctga 300

aacaagaagg	cggagcgttg	ccttgttcga	cttcagctgg	gaagataggc	gtcaggggac	360
tcaaaactttt	cagcactctg	ttatatctgn	gaatgatcac	aaaaaaaactg	gggagtntta	420
tttttggggg	ttacnaataa	atttttacca	agtaagcttg	nttcacaaat	acanaattnt	480
ggggataatg	aaaat					495

<210> 82
 <211> 98
 <212> DNA
 <213> Homo sapiens

<400> 82						
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aaaaccagga	aaagatggct	catggaagca	aagaaaaac			98

<210> 83
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 83						
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gaggaagagt	ctgagctgca	tatgtcaaga	aggagaaagg	ggaaagaagc	aaggagcgag	120
accagaggga	gccacgcaga	aacctctggc	ctctctgcac	gtctgtctta	tcctacagag	180
tggcgactct	aaaaggccaa	gggtgccagc	gcccagcgac	agttcacagc	ctgagacacg	240
ctttgtctac	acgcctccct	cctcctctgg	ctcctacctg	ataaaaaagca	ttaccggttt	300
tgatgtttcc	aacctccccc	attttccctg	gtgaaagatc	cattcatttc	agtgtctaaca	360
agacatcata	agcagggaga	aggaacaaaa	ggcanantgt	gtnccttaagg	agggaggcan	420
tttgcaaaaag	cnccactntt	ttcaccttgt	ccacagaata	aagggttgaa	gactaaaaaa	480
aaaatt						486

<210> 84
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 84						
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cacncantcg	agtgtggagg	ccccgaggaa	gatcanctnt	naanacacag	gcaggcaaaag	120
ggcagacctc	taaggagatg	gangangaat	gacanagggc	nngaagaatc	ntgtgaggga	180
ctgnacanana	agccagtgc	naaaaacttnc	agaagagctg	ncaacagtac	caaacaaagc	240
agaagagtct	caaaagatta	aaaataaaat	ttgcttccat			280

<210> 85
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 85						
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gaaccagagc	tccttgccctc	cctcccagcc	ccccacccaa	gtaacacgtt	cctgatcctg	120
tcctggaagc	agcttcgagg	aaatgccag	acccttggg	ggtgatgtgg	tggcaagggtg	180
acaaaggggc	aggtcacaca	gctgtcacaa	gctgatatgc	aagaactcac	aggcatgacc	240
cccaggggct	atgggtgtaa	gggcactctgc	tctgcccttt	ccagcggg	tagttttggt	300
ggcctctgtt	ccattttattt	gcttaggaac	acaaagctga	atgcactgtt	tgcaggaagt	360
tgtgtgtcta	agtcacctaa	gttagtaaaa	taaaataaaaa	ccttttgg		408

<210> 86
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 86						
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ggaaatatcc	ctgaccatgt	tgggacttaa	cactgcttca	cagagctacc	caaaccaagg	120
agaataccaa	cgtgaattgt	ctttccacct	gttgtgtggg	gccagcaatt	attcttttag	180
cttgacgcgt	taacccacct	gctccctgtg	gccctgggat	gctctgccat	cccccgtagc	240
tgccagttca	cttagggtag	acttatggca	gagggatgtc	aattttgctt	gaactgctca	300
atcactgctg	acatttcgtt	aaccacccta	tgaacttctc	aagcctgaag	tagcagcaac	360
ttgtgccctt	gaaaactgaa	cagaaaacaa	ctggattgna	ttttttcttt	caccaggaaa	420
aaagacaatt	ttttntttgt	tganaangtc	ataaaggcat	tttaccctct	tatttttt	477

<210> 87
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 87						
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aaccactccc	cctggaagct	tgtttcctgc	actgttaaga	gcatggaccc	tgaaggcgga	180
ctacctggat	tcaaacccta	cctccacctc	ttattgggag	aatgaccttg	tgtaaatgac	240
atcacttctg	tgtctcagtt	aacacgcctg	taaaatggaa	ataatatcta	tttgtgatgg	300
ttaagtttta	tgtgccaaact	tgactgagtc	agagaatacc	gagacagcag	gtaaaacatt	360
atttctgagt	gtctatgaag	ggtgnatctg	gaaaaaanta	cntttggaat	ccgtngaaaa	420
ggggcaagna	anatctgggg	cggntcatct	gggnatcatc	caatccactg	gagggctcac	480
ccaaatagaa	caaaaaggct					500

<210> 88
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 88						
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aaagtgcgta	tagctgcggt	tgagaaggct	tagtcatgac	tagaaaagtg	tgaatactgt	120
gacatacctt	tgcaaaaaaa	tgttcagctt	aagcctctan	actaacttct	ggttttacaag	180
aanaaaaaag	agggggcccat	ttccaaaaag	actcctgcct	tgaactcttc	aaaatgccna	240
tgncacaggg	ggaaaaaaaga	tgggggaact	ctactacntt	aaagctaaag	aaaaatttna	300
aaaaaaaaaan	gaaaaaaagg	gccngcgngg	cenattnagc	ttggacttan	ccaggctgaa	360
cttgnntnaaa	aggggggggga	c				381

<210> 89
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 89						
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ataaccttcg	gagaagagag	atgctctcgg	tgccagtggg	ggaagaaagg	actatactta	120
cacttatgtc	gagactgcaa	aggctaacag	catcttcac	ttgggtgctc	tgtttccgct	180
ttcgctgcaa	aacaaacgaa	aaaacaaagt	tcaaaggcat	gcagccctct	ccagtccaat	240
tcaacacact	acccagcttt	ggagccaagc	ctcatgagtt	cccccaaccc	agttcctgcc	300
agatactgcc	acctgctcca	agtgtcaaat	ccagaagaca	aatggcctcc	aatggctctt	360
ttaattcagc	catagacagt	caatctggga	tagaatgatc	tccttaagga	accacatgt	420
tttataaaat	aaaaactgca	tgaattatca	aaaaaaaa			458

<210> 90
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 90						
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gaacatgtct	gcggtagcca	ctgggtccaa	gagaatgagg	aaatatgtag	agcagctttg	120
aacctaatca	gcagtctgaa	gtcaagccca	gtggattcca	gccaagcaca	gcagaaccac	180
agccaatcta	tagaactatg	agagaggaaa	taaatatttg	tggctat		227

<210> 91
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 91
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 gtgttttagt gggtttattt ggaggggcat gggctggaaa ggagcgggca gagatgcagg 120
 gcaaatctat aaaacatttt gaacttgtgg cctataaacc accaaacatc atgcagggtca 180
 ctgatgtgag gatctgctgg gcttatggca tttgtgacaa acccaatgat tcttttatta 240
 caacagctta taaatg 256

<210> 92
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 92
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 ttaacgagga ggaacggatt tgtccatctg accacaaccc aaattgcttg aaaatttggg 120
 cagctgtgtt aacagggaaa gaagttggga catggagttg gacagacctg gctttgagac 180
 tctgcctcat cacgacctcg ctgtgtgttc cctctgaact tagctttcta tattaacaaa 240
 atgaggccaa taataattcc accctgtctg cattccaggg caattaaaga atcataaatt 300
 gcct 305

<210> 93
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 93
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 ggacatgaaa ctaagcattc tggctccaga gtccacgttt ttaactcaac cggaatactc 120
 agcaatggct gagtctacgc cctgtcgtcc cctcctgggt ctcacagaat ggaaataaat 180
 gtctcaactc 190

<210> 94
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 94
 ctttgagcct tagctgtcat taccaggcaa aaggaagagc cccactcagc acccgtttcc 60
 ggttttacgg cccaggcact gttgagcaga ccactatgtg gaaagccagg gaggataata 120
 gcagcccccc aatgaggcca cgagccccag aaccatcctg attgctccct ctgagggtgat 180
 ggacagagga aattttccct ccaaggactg acagagaaaag aacaacggag atgtgggtcgt 240
 ctgctggcat ccattaactt gtgcaactag caaagcaccg agtccacagg gaaaagggag 300
 agaaagtgt aatgaagggt caattgtgtg tgggaaggctg agtgtggtca caggaaaaatt 360
 gcctcatnct tgtattgnaa tggcatcttt tattncctca accccaaggt tntaaagtan 420
 gttccctnnt ccttttcnta agccaagcac ccttatgcca ccatcatntn tnacttanac 480
 cacaacttta tcctnctgac atgtttacc 509

<210> 95
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 95
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 tagggcaata taaccccccta caaacaacct tccgacaaga ggacaagtgt tttcacaaagg 180
 cttcatggaa tgtcgaagtg gaggaacaaa acacttcagc tggaaagata gcacatagcc 240
 agaagtcaac cccaacccta ccaaaaataa tgatgccagg aaacagagct acatacacaa 300

aaggggaatgt	gtaccaggat	acacataata	aagtcccttg	gccaaagctg	ggattcctcc	360
tggccaagcc	agaggagtga	ttcaacttaa	gagaaaattg	gaaggaggac	atgtggaat	419

<210> 96
 <211> 95
 <212> DNA
 <213> Homo sapiens

<400> 96						
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<210> 97
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 97						
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ttcgtgaaca	aaagcacatc	tctctgagga	ggcaaaatat	cacaggccta	tgacaccaga	180
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gcctcaggaa	ggttggcagc	tgccaaaccc	acaggctaag	cagtggtagg	actgtgattc	300
aaactcagat	attttgggtc	atctgccagg	aaatttttcc	tgtcctggaa	ttatctgctc	360
ttctcaagaa	ggaaaaactt	aatccttctt	antcctgaaa	cccatcttag	gaaaggcaag	420
aaggaaatgc	nccaaaatgt	taactgnngt	tgacactgaa	gggggaattn	gggctttgtc	480
tattttttct	gcattgaccc	atttg				505

<210> 98
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 98						
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cacgaacagc	ctgacctgac	tttcaaccag	gaagttcaag	ggaggcagga	ctttacggtc	180
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cacccaaatc	gaagaggata	tcgtttcgca	tcagggaacac	tcgtctccac	acctcctacc	300
tcaaagtccct	acgcacctac	ccttcacgtc	tctncaaagc	aactgaatta	aagcgccctac	360
tgggcttggc	ggngcaagga	atttaattca	ggaactatng	gggaaaaaag	caggggagga	420
agaaanagga	aagacccggg	ctgaggcacc	aggaagaagg	gacgcacaag	aacctatcat	480
tggagcttgt	tcgaggccag					500

<210> 99
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 99						
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tcaaaagttt	tgttctcatt	cttggattat	agattatcta	aagggaatat	ttaaactcaac	180
caaaaaattc	gttcagctcc	atgaagctaa	agatgctata	aactgactct	ttcctaaaga	240
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at						482

<210> 100
 <211> 508
 <212> DNA

<213> Homo sapiens

<400> 100

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gatgagacct	gttttgaaaa	cgaagtttta	gaggaactat	gtgaacagat	tgtgttcttc	180
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<210> 101

<211> 376

<212> DNA

<213> Homo sapiens

<400> 101

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agaattagaa	tgcagtagga	aaatgaatta	acatctgata	agaaaagaaa	ccaaagagtn	300
aagacctgta	gttctgcaac	acagatgctc	atcagaaaaa	tgtgggtaac	cttttcaata	360
ataaaacctt	ggacctt					376

<210> 102

<211> 304

<212> DNA

<213> Homo sapiens

<400> 102

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agaatagaaa	acctgaagaa	tacatttttg	ttggaagaat	agaaagtctg	cctagagngt	180
ctttggaatg	ccagaggatg	agatccgtct	tgtttactaa	gagttgtnac	ggntccccctc	240
accttacctc	ccaaatcctg	gt naggaacc	aggacctgcc	aaggtgaagc	actgatacat	300
tttg						304

<210> 103

<211> 501

<212> DNA

<213> Homo sapiens

<400> 103

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ataatgaagt	gagntgcagn	taanatggag	cccactgggg	aagagatgaa	gcagtgttca	180
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atggtctcct	cantaaaaac	aaggccgtan	gntttntttg	ggctttcgcc	aatgcaacc	480
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<210> 104

<211> 431

<212> DNA

<213> Homo sapiens

<400> 104

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ancananagg	ggctcangac	gctgtgagac	ttttccattt	cctttgcctc	ccagcaggcc	120
gngaaagagt	cacttttcct	tgaggaagaa	agaaggctct	gtgtgcaggg	caaggggtaca	180
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<210> 105
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 105						
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gacaacaggc	agcaccaaaa	gcagggncng	gaggactaag	gacaactgtg	ttgaaactga	120
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agcagttgga	ttgttgtttt	aataaaactgg	aagtctgcca	acattatctg	ggaagaggac	240
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tcttgctcc	tttcttttcc	ctctccccct	tttcagnctt	tttttcctta	atacacaagt	360
ctcttttatg	gagttaactc	aagctatctt	aaacagcatg	aactaataaa	ggca	414

<210> 106
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 106						
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aggatgaaga	cctttatgat	gatccatttc	catttggtga	atgcctcttt	caaaagaaga	180
cgtaagacat	ctggtgtcaa	gaagaataaa	tacaatacca	ttaaagaatt	ataaacagaa	240
ccagagccag	agaagaatac	cattttttact	tgacagatga	ctgacacaaa	acttggttac	300
acagacgaag	tattttaagca	agatactttc	tcgaaaatga	acaacacgcc	gactgncatt	360
tcaaggaaac	caactgacaa	catttcctgt	taggacaaaa	tacaagtttt	caaccaaatan	420
ttagaatttta	ggaca					435

<210> 107
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 107						
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tctggtatgt	gaactagggg	cctggttctg	gttatcagct	ctcctccacc	taaataagac	120
ctgattccca	ggcaccacat	gctgatgtgg	tcaggaatga	gatggcacct	acctctgcag	180
cttggcagct	cctcgaatgg	agacattggg	tcttattcac	ctctgggtct	ttagcaccca	240
gcacaaagg	cagacagggg	ccagacgcag	ttgtgcccac	ttttcgaggc	tagaaaaataa	300
tgatctaagg	aaaagacgat	tttgaggnc	tcagaaagg	aatacagcag	caaaagccag	360
ggagcctggt	taacttcttt	gagcacttgg	aaggataaan	aatccatac	cctggaaaaat	420
gnggtttgc	ttaaagt					437

<210> 108
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 108						
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actcaggcag	cctacgaaga	ggccacatag	agaagaacag	agggctgcag	tctacagcta	120
gcaaggaacc	acagcctgcc	aacaaccata	agagcctgcg	tgggagggga	ccttccagcc	180
cccattgaca	gcctgagtgc	aactccatga	gagacgctga	ggagaatcaa	gtagctaagc	240
ccttcctcaa	ttcctgactc	tcacaaaactg	tgcaagataa	taaagattcn	ctctttttcag	300

ctgcaaaaaa aaaaagggn c nggggggccc tttnnngtngg ncttnanng ggggaanttn 360
 tttnaaaggg gggggccccc ccc 383

<210> 109
 <211> 79
 <212> DNA
 <213> Homo sapiens

<400> 109
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 atccctagggc attatatat 79

<210> 110
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 110
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 aatggcgctg aaggcctagc acanggcagc ctctacctca aagcaccatc ccgcttaaca 120
 ttccaacggg gcctnaaang aaaaaccctn tgggtggggtc caccacaaac ccctggcctc 180
 catgtgtctc ttcctggccc caaggacagc ttgacactnt ccaggaagna aaggccaang 240
 ggnaaccccc ttgtcaanaa nacttatttc ttaaaaaaga tctnggnttn tanantcaan 300
 gggggacctg gtttnaaagt ccccggcatt ttgcccttct tgaacttcac canttgtttc 360
 aacnctttt ngggccactt ccacctttnc ccttcatnc tngggaaacc ctccangttt 420
 ttncctccat tctggggnaa gtccaagggg gngggggngg ggaccccacc ctt 473

<210> 111
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 111
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 aatggcctga aggcctagca cagggcagcc tctacctca agcaccatcc ggcttaacat 120
 cccagcgggtg cctcagatga gaagccctgt ggtgggggtc accagaaacc cctggcctcc 180
 atgtctcctt cctggcccca aggacagctg acactgtcca ggaggaaagg gcaaagggga 240
 agcacgtggc aagacactca tttctcagaa agtctgggtt aggagtcagg ggacctgggt 300
 tcaagtcccg catctgctc tgactcacia gtgncacett tgggcactta ctttcccttc 360
 gctggacctc agtttctca tctgggagtc aaggggggtg gaccagctga tctccgg 417

<210> 112
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 112
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 ccaccttggtc tgaaatggcc tgacatgatc agcactgggc gtgacccaaa gatggaatga 120
 agaacatgaa tggatgactg tttccttagc aacaagaacc atatgtttcc tttgaaacaa 180
 gaaacacaaa gaaaagttcc catccatttt tctttccacc aattcaaaga ctaaaataga 240
 gtggcttaaa attataatgt tt 262

<210> 113
 <211> 229
 <212> DNA
 <213> Homo sapiens

<400> 113
 gctcaaccaa atgcctctgc caggagaatc tttcagagtg tcttggaaaca ttggaaatag 60
 gcttaaaagt taaatgatga atcagaagag ttatgctgta ttctaagtct gccactaggg 120
 ccacacaggg tgccaacatc caatctcaag atcttcggga aatatgctca cctccaaaa 180
 tacttacaga tgtgtctcct cttttttgta aaataaatgc tcttcttat 229

<210> 114
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 114
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 gaaatatgag aggcctcaagg gcagggctgt gaggacaagc aggggagatg agatgaggag 120
 ctggctgcat ccaaactgca atgaacctat accatagaac acagaacaca aacattgaac 180
 ctgctgagcc tgtatgaagc tactatccca ggactgtgaa aagtagacta gttgaggaag 240
 aattcaagtc gacactgaac tagtggtaga gctctcatca tacagatcgt tggaaagtag 300
 catcccgaca gttctgag 318

<210> 115
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 115
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 tccangnatt tccagagatc ctgtggcngg tgaggncctgc cctcncctgga nccaactcgt 120
 ctataatatc ttcctaacag cangagtcgc ctgcgggggag gagaggagaa gacagactaa 180
 gctgcgcgta gagcggcatc aggagcaagt taccgttagc atgtgtaaac aaaacaactc 240
 gactcctctg tgtcagaatc aacaacatca aagctgataa tgtggctggt tgggatcaat 300
 tagcactgga ttttgcccca agattgcttc ccaaggcgga caagtgggag ccacttcatt 360
 ttccagcgac ttttacttcg ntcacgggca tatccacgcc agggctgcag aagcatttca 420
 aaagg 426

<210> 116
 <211> 229
 <212> DNA
 <213> Homo sapiens

<400> 116
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 actggagaaa aagccaccat caaccagaa ggccaacttc cataattata tgaatcgttt 120
 gtgaacattt atggattaaa atgtttgagt aaagctgaaa tcggatatta cagtccatga 180
 atagttcatg ccatgagaca aaaaattaaa gaaaaaaatt tcattgatt 229

<210> 117
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 117
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 gagcctcaga cccatgcccc agcgttatgg agatgtcttc tggaagaacc ttaatcaaag 120
 gccaccccc acttggtgag aggagcagca cattccaccc atgctgagag ccactggttg 180
 ctcccagctt ggtctgtatc ctccctgagca gctcccaccc cctgaaatgc tttggagaag 240
 aaagaagagg aggccatggt tggaaggaat gcagcagcag ggccttgggg gagtccccgc 300
 ccgggtgagg gctgtcactt accacctgga ggacctaaaa aaggcgtcag aagcattatt 360
 aaacgaactt gaaaaaggcc cagtggggca agcttntggg gctggcatct tganccagtg 420
 ggtgcttggc 430

<210> 118
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 118
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 aaggctgncc ttnggtcca tcaacactct gctagccaac actttggccg caagttcact 120
 ctgctatcca cagctctggg gcacttctct ggctgtctgt tagtaaccac taacctaacc 180

caacctcatt	ggccaggtaa	aagctatcga	aaataaaactg	aaaatttgcta	tctctatatg	240
nccatgaggn	ttaatacagg	aaaagctgat	agtcaaaagt	caagntcaaa	tggtatttgg	300
tctccacagt	gaaaaaatgn	ctttangctg	gaataccaaa	gaactnggga	ggcaacaccc	360
ggacctgnct	tcaaaagatt	ttnatcttcc	cttttccctt	ggntggcagg	gcctaaaatc	420
aattcccagg	gttca					435

<210> 119
 <211> 405
 <212> DNA
 <213> Homo sapiens

<400> 119						
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ggttccccctg	ctactcttgt	gaagtttcca	ggtacccaaa	gcaaacttcc	tcctaacgac	120
tcagggttcc	aatcttttct	cccttaaaaa	tacaagatcc	agaagaggag	ccctgtcaga	180
tttccattca	acaaaaccgn	tgggcttacc	aaccttacac	tggaaacaac	aagctcaaaa	240
gtggactctg	aaacttgctt	tttaaaaaaa	gcgtttcaag	cgataagtgt	aacgtgctac	300
agcaagttaa	gacatctgca	ggtctgatgc	agtcatcttc	tgggggggtt	acccaacaga	360
cacacacagg	gccaggcacc	ttttcttctt	tagcagcaga	agaaa		405

<210> 120
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 120						
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agaagggctg	ggagaacatc	aaggcttggg	ctaaaacaat	tatggcccat	gaaaggagag	120
agaaggtgaa	agggagcgtc	anccccctcc	tgagtaacca	agtcctaggg	aaggagatca	180
ccancatgct	gctggagcag	ctctacttcc	tgcagagcac	tccttccacc	cctccccccg	240
gaggaggagc	ccaaatacca	cgccacggcc	caagaatcat	ttgctgtttc	aaatagagaa	300
ctgggcgatg	atgaaaaaag	aagtccatac	cgtttttcca	acaccgtgaa	aaggacctnt	360
taaaccctga	accctcgtgt	tcaagcttgt	naagaataac	agccaataaa	aactacattg	420
agcc						424

<210> 121
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 121						
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cactccagag	ccctgccccca	tctagggcgc	acgtgcatgc	ctctgaattt	cctccccctt	120
ccttggtcca	accacagtc	aggaaagcag	attttctatg	ccccgtggca	atcacagtgg	180
aaaatggaa	tacaatggag	tgctgtacct	acccaagcac	caggaggcag	gagtcgagct	240
actcacagac	tccctagagg	agaactccac	gcacccaaac	tctgctgtgc	cccctctgag	300
ttctgagcat	gccagggtgag	gcctctccct	ctctntntnc	cttcattcca	agtttttngg	360
aaaanaaagc	aagcagccccg	cgtgaccaga	cagagccttc	cttgctaata	aacctatcct	420
ga						422

<210> 122
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 122						
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ggctgnanct	tggctcttga	gaataangca	ccaangaaca	tgggagngca	gcaaagctca	120
tgacattaca	ggaggagcag	agttctatca	tgtagaaggt	cattcacccg	agcatgcttc	180
cttatcatca	tctcatcttg	tgccgggtata	caagtaagat	cagccagctg	ctgaaatctc	240
taaggaatat	ctctccatgg	agacagagcc	agacggccca	agtcctcttc	ctgttcttga	300
gttcctgttt	tcaagtaatg	atttgataa	actgggagaa	ccagtttcct	ttcctccaac	360
tctggcaagc	tgaattaat	tctccaaaga	ctcctctttg	gaggcaagc		409

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<210> 123
<211> 419
<212> DNA
<213> Homo sapiens

<400> 123
gcgctgggga gctcctgctt taagtnanan cngaaatcac ccangtcann aagganaang      60
aaaatanaag ggcaanctcg ctgtaaagaa nggattactc aaangtngaa ccaaagccgg      120
gggaaagaac atggaaagca gtggagaggc accaggcagg tcgctttctc tttctgggcc      180
tcaaccacag cactgccgtc ttcagaacag taactattac ttgtccatac caggcatctt      240
caatactcct caactcatat caagaattct gcccagtcta aacagacctc catcctacaa      300
acactgaaac cctaacccaa aaccttacat atatccacct ctcaacttat ccttctgaga      360
cantatgaaa aacaaagngg cagtttcctt tactggaata agtattaaat tttgcttgg      419

<210> 124
<211> 410
<212> DNA
<213> Homo sapiens

<400> 124
gagcgcgaaa gacagcctgg aaagtgacag ctccacggcc atcattcccc atgagctgat      60
tcgcacgcgg cagcttgaga gcgtacatct gaaattcaac caggagtccg gagccctcat      120
tcctctctgc ctaaggggca ggctcctgca tggacggcac ttacatata aaagtatcac      180
aggtgacatg gccattaccg tttgtctcca cgggagtggg aggcgccttt gccactgagg      240
agcatcctta cgcggctcat ggaccctggg taaaaattct gttgaccgaa gagttttag      300
agaaaatgtt ggaggattta gaaagatttg acttcttcca gangaattca aacttcccaa      360
agagtacagc tggcctgaaa agaagctgaa ggtctccatc ctgcctgacg      410

<210> 125
<211> 358
<212> DNA
<213> Homo sapiens

<400> 125
cnnanactga gagataggan ctcgctacgg ttgcctgggc tcaaactcct gggcccaagc      60
catcttccag catttgctc ccaaagttct gggattacag ggctgcaca ccaatgaaac      120
tactgatatc agctgttctg aagaaaccca gaagagactg aatcaccaaa gagtgagtt      180
tccacatcct gatgatttta tcatccttac tctgaccaa cagtgcctc aattttacag      240
cccctcacac cctataatca tcctaaaaac ttcagcccag aactcctcag gaggataatt      300
tgagggtttc tcccatttcc ttatttggct gccctgtaat cattaaacac tttctctg      358

<210> 126
<211> 488
<212> DNA
<213> Homo sapiens

<400> 126
gtctggggag ctctgcann annctgnac tgagagttgg ct nangagaa gatcaagagt      60
gccatctgga agctcagggc natgagaaca acctggggcc tggctctctc agccaccatc      120
aaccacaata tcaacanaaa cccagagggg aaacgacctc ctttcagcan gactgggaaa      180
cccttgaagg caggaactga gccttcattc cagcactaac tcaacaaaca tttcctgagc      240
tgtccctgaa gccaggccct ggctgagaat gctgaaaaga ttcagagcag atacacgtgg      300
gctctatcac acaaatttca tccatgtgtn ctacccaagt gataccactt gctctttctc      360
tgggctnccc cagtcacctga cacagaactt tttggtcacc aacctaata ttcanggatt      420
ataactgttt acatgtcagt ctctctctct cgtcccttga cagcagggat atggntggcc      480
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<210> 127
<211> 437
<212> DNA
<213> Homo sapiens

<400> 127

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accnnacctg	ccacagcctt	gatcttaacc	tttgngaag	ncacaactga	gagannatnn	120
nnnntgtggt	ttataaccca	nccagtntat	gatattntgc	tncannaacc	tgaatggact	180
aagacnctcc	ccaccatgan	aatgtccaaa	cataatgnga	cagatgtctt	tacatcantn	240
gtggatgctg	ngacanaggc	ntttacaaac	acagagcaac	ccagggagct	gatcagcatg	300
aatgaggctg	gaaggaggct	cananaatcc	atctttccag	tgaacttgga	acaccagaaa	360
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acgggaaaga	aacaagg					437

<210> 128
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 <212> DNA
 <213> Homo sapiens

<400> 128						
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actaatgatg	gtctgagagt	acctgtgctg	aaatggaatt	gtctttgagt	ggacacttct	120
tagatgagac	ctattgtggc	caatagctcc	tgaggaactg	aagccttcag	ttcaaaaactt	180
gtgtgagaaa	aatgaatctt	gccaaactact	ggagtgagct	tagaaatgaa	tccatcccca	240
gttgaccctt	gaatgtagcc	ttgtcagaga	cccagagaca	aagcatcctg	ctaactctgca	300
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ctgcacttca	caaccaa					438

<210> 129
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 129						
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aatgtggcag	gaagccctgg	tattctagaa	gaagctctgc	ccactccaga	caggatccgc	120
acgcctagtg	ccatgtctat	ctccaaggag	atcacattct	agagccaagg	accgccactg	180
agaagaaagt	aaccgtgagc	cgtcagaatg	catacctgga	gcgctccagg	aaggaaatct	240
cagccccggc	atcctccatg	gtcacacgga	gagggcgggt	gtcctttag	ctttggccct	300
gagatgggag	ctagagctgg	acacaggggt	ctagtctctg	cttttgtgga	aacaagttcc	360
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ttaagccctc	tgcaagatgg	ag				442

<210> 130
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 130						
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agcaccacag	gtcagcagca	gtcagtaact	acaatgcgac	tcactccaag	aaccacacc	120
tgccctgtgc	agaaccacag	ggccgtttca	ctgtggggca	cagaacagaa	gcctgggcca	180
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ggcaaaacac	ataactctga	caaaggatta	gcacttagaa	tataaaagaa	cggtgatgaa	300
tcaatgagac	aaagacagcc	tactagaaaa	atctggaaat	aaccceaagcc	gggaatttcn	360
ntgaagagaa	cacataancn	gttntaacat	atgaaaagat	attcaatctt	atgtcagtca	420
agaaaatgca	aattaaaacc					440

<210> 131
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 131						
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ttgctgtgct	gaatggcaga	gaagatcaca	gaggaagaaa	aaagaaaaag	acagaaaaaa	120
ggaggcggag	aatttcttgc	ttaaaactgga	cctagtccag	ctggcaagaa	gaggtggttt	180

tcttaacgcc	tgcaaaacct	gattactttt	tttaaaggaa	tgaagaagaa	ggagatgtaa	240
acacagccat	taaaacagat	ttaaggtact	tagttttaat	ctagtctaag	accttttcaa	300
ttgtatgctg	ctctgcaatt	ctctgcttgc	tagacattaa	tacngngcat	aagcccntgg	360
tcagngtctt	ttaaccagn	aacgctttca	gctgagctct	gnggttaccc	tctcaggtca	420
ggcatggaag	gcct					434

<210> 132
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 132						
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atgtcagcct	gcccagaata	aggaagtacc	cacagccggg	aaaggtaa	ccaaaccctg	180
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ggcttttcac	agacactgct	agtagggctc	caggacctct	ngaaggccna	gatngggggg	360
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<210> 133
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 133						
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aaccaaagg	tgtccatgac	ttaggtacta	aatggcaagg	ctggaaccag	aatccaagtt	180
gccagtcac	acagttttgg	tttttaata	accaaattgg	tcaaaaatct	tcctcaaaga	240
caaaaacaga	tgaaggtaaa	atgccaatg	gttaaattta	aacagagact	tcactttggt	300
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<210> 134
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 134						
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tgccagggag	gggtaagaag	aagcagagtg	tcaccgggta	agagtcgaca	gttttgaa	240
ctcgtagctg	cgaatctttc	aggaaataat	ccagaacagt	ctcctcgctg	gacaggaaag	300
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gtttcccaa	tacctaacc	cc				442

<210> 135
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 <213> Homo sapiens

<400> 135						
tctccatgct	ctggatagag	gaggttcaca	agccagggcc	tgaagattaa	cagagctttg	60
aagccaaaag	gtgaccctg	gaccatggac	ttcgcacctc	ctttcttaag	ggctttaaaa	120
tagaaaagaa	caggagctag	aagatgaggc	agaagtcgag	gacttctgtt	tttctggaag	180
gctcctctga	gccacaagg	ccagggtgtg	tctggatttc	agagcacaaa	gaggctcctg	240
gagccagcca	tggtctcctg	aggcttttac	caacttgaaa	gcagcctttc	tccagggcag	300
aaacgaagca	tctccccagc	gctcgccatc	ctcagctgnt	ctttacaaca	agaactttac	360
aaggatgcc	ggaagaaggc	ccaananacc	cgcgttctgg	gcaagccact	tttaccacac	420
cgactggatc	cccc					434

<210> 136
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 136
 gtacctaaagg cagtaaaaccc ccaactccct ggaagggccc actgggagct cacttcgctc 60
 cagagcctcg cctggtttcc gcttcgggat ccggtcacc aaccagctc tccagttgct 120
 gctgtttctc gtgagactgt cagagtgaag gggccaaaag ctccgacttc cagcctcaga 180
 aatcccaact caggcaggat cagcgaagcg tccctcgag tggtggagg gagagccagg 240
 cggggccagg gctgccactt atcagggctg taaatgccac cctgaggccc acgcctgcca 300
 acactgctcc ccacaagact aagtcctgca gcctcagccc aaaaagaacc gggcctaacc 360
 ccaaaacgga nggtcatgtt caagccacac cccagtgaac cctggcgacc caccacacag 420
 tgccctgccc tcc 433

<210> 137
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 137
 gactagaact attgccactg aggggcaggt gggaagttca gccaaactcg aaccggagg 60
 cccacacctta cctccctttg tgaagagccc agagcctttg tccaaagctg catcacttcc 120
 caccagccc ttccctgagcc aactccccga tgtctccaga agaacacagt cggcatcatc 180
 gtgataacat cagggaaact cctatttcca gcagtttctc cttcagctgc aaaaatgtgc 240
 agcagtagac agggcggtgg tttttgaagt ctctgcagga ggtagagtta ttttctcagc 300
 accacatctg agcgcatctt ctaaggggtg ccgactgtgt gggaaactgca agagcttaac 360
 ccgggatgca agccctccca ttccccacc tgtccactac caccacgcct ggatccgaca 420
 ggcagggcag gaccccatgc ccc 443

<210> 138
 <211> 405
 <212> DNA
 <213> Homo sapiens

<400> 138
 gctctgggga gctcctgcat tannnctan ctgagtatca tcntctgcc atcaagaatg 60
 taagtatgaa gaatgttccg acactgctcc aggactgtct ttcaagccac tgacaacccat 120
 cctgcaaatt ttgatactgg tgccgttttg gtgtccctag aggatctaaa tgaagatgtg 180
 aaaacaacaa ctaagaaaat attttaaatg gcaattactc aacacgagaa gttaaaacaa 240
 tgtccacact gagactgaaa tgacagcaac agaaacagca agtcagagcc atgcctgtac 300
 aatgacaact agatcaaaac tgccacctgg ccaaaagcaa tactcagatg ctattaactg 360
 taagacagtt aatggtatgt tatgaggtga aaaaaaaaaat tcctt 405

<210> 139
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 139
 ccnttttgat cccacctac aactgggcat cgctaacaac ccatgtgagg tacctaggaa 60
 gaatgagaag cttccagcaa ggcagctgct tccagcagca agctcctgca tagccacag 120
 gccattccag ctcaatgctg gagaagaatc ttccccctaa cagcactgcc cagcactacc 180
 caactaaggc ttctctggtt aaactgcccc aggatgcccc aagaacttgt ttctaaaggga 240
 aggaaaacag atgccaagac ttcttgtgct ttctccaggg ggctcagagc aggcctgat 300
 cactaccctg gatgcacaaa gtatctatca aattcccaca aggtanaaag ggttgccagg 360
 aatgggaaga aacttcaata ttggaagtca ccaatcacag aagataactg gcaaaacagt 420
 tctactaagc aagcacagag ccatttgc 448

<210> 140
 <211> 458
 <212> DNA
 <213> Homo sapiens

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<400> 140
aactgaggtg gtggtggtca agagcaaggt cgaggetcac ctgtgcccac ttggttccgt      60
acattgctca ctagaggcat catcgacaga gtatgaatca gctccccaat tagcctgacc      120
gtaatcacct gtgttgcttg attattatac aaattccccg acctcatacc gacctactga      180
atcgaaatct ctaggagtag attctgggaa tctgtatcgc tggtaaagct cccaggtgat      240
tcctataatc tggcaatgtg ggagacacga gcattaaggg aaccagcaa caggctccat      300
cctctgccta acatcagcaa cctcagcaga gacttggtcc cagggaccct tgttcennta      360
tgtaccccaa gacactgtcc ctaaattgng cacaaaagca agactcaggc ctgtctcaca      420
cactggcaaa gctgctgccc cccagctcaa accagctc

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<210> 141
<211> 451
<212> DNA
<213> Homo sapiens

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```

<400> 141
aagcttgatg gacctcaatg agtcatgaag aatcctaatt tcaaatccaa agaatccaaa      60
gtgatgataa caaaaagcaa taattgatat ctgaacaaag attcttgggc agccgagccc      120
ctcttggaatt cctcagccta ccatcatgat caacacctcc catgttccgt ccatgaatga      180
ccgcaactgac agcaactggag agattttaatg ggtcaccaat tgaggcagtg aaggcactca      240
tggcaactcag agctggaatg gggctgatct gagttgtact gttgactgca gtgggtgatga      300
caacctgcat tccttttctg gctgcatcga caactgcttt gtnaatgggc attntaccgg      360
aagcatcacc tggggccacc cacaacgagg ccatncttca cctgttgacc aagagatggg      420
tcaatcctcg gttgcaactc acaaggtggt c

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<210> 142
<211> 450
<212> DNA
<213> Homo sapiens

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<400> 142
atcccttctg gagctgggtc taattgcttt tcacaggagg gatgcaaact ggaaagtctc      60
tacctattca gcgaaggcac tccaagtcct gggctctttt ctctcgggg gcaaagatga      120
gacttctctt ctgtagagat cacagggtga tctgtacagg ttggagtgtc cccccaaccc      180
tggacccta ggagcggccg tgatttgtga cacaaggccc caccgttga tctactcttc      240
acacagccgt ggagagccaa gaactgggag ggaggaggaa atttggagac agagacacac      300
agggagaacg ccatgtggag gtgaagataa agaacacaac ggtgcttntt acaacccaag      360
gaatgccaag gacctccagc aaaccaccaa gaagctcagg gggaggcaca gaacgaattc      420
tttctcacag acctcagaag gaaccaacca

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<210> 143
<211> 452
<212> DNA
<213> Homo sapiens

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```

<400> 143
tcagagttta caccttactg tacgggtgac cacctgaatc ccaatctcac gaaacaccca      60
caacccttg gcatccctg ggcactaccc agcaaagccc tatctttgca tcggtctcag      120
aaggagtctc ccagatgctg caccagctgc ccagcgtgc tggaggaaat ctccaccgct      180
gcagaaaggc catccctcca ctccctggac agccctctcc acgtcaccca cctgggtcct      240
ctcctactcc ctttggtgcc tggctcttcc cagcagctgc ctaccccca ctccctgcta      300
ttcaagccct gnaggcacct tgactcctaa atgaatgaac ttaactgctt gccctgcccc      360
cttattgatc tgccagggtt tccaccttn catctnttca gggcctgcct ttgcagcaca      420
agccaggctg ccatcacctc atgttccaat ta

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<210> 144
<211> 258
<212> DNA
<213> Homo sapiens

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<400> 144
ctgtcctgag agcacgtctc tacatctcta cctgcattct ggaatcaagg ggaaaaggcc      60
aaaacggaca agaacactag aatcagcccc tgtcccaacc ctttgactac aagggtactt      120

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tcccgcctat	ctgtggtggt	gggtatcatg	aaaattatgc	acaaaccttt	ttttttttta	180
anctcatcan	ctntngttag	cattagggna	tttnatntgg	ggcccaggag	cattnttttt	240
ccaanggggc	cctgaaaa					258

<210> 145
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 145						
gcactcattc	tctttcctgt	caccctgtga	agaggtgcct	tccgccatga	ctgtgctgaa	60
cgtgtcctcc	aagggtttca	aggttatcgt	atgccctgaa	attgggcaag	gagctttaag	120
agggaaacttt	gagtttgcca	gagaaaactc	aagatgtttc	tacatgaaga	aaatggtttc	180
agacatttga	cttctttaat	ttttgcatac	tctttgtgat	ggttggttagc	aaagacctaa	240
agtggttgta	tggctatattg	caaaggctga	gtgtgacttg	atattggctc	aacttgaaaa	300
ctttgatatt	tgatgnttgn	attcaaaatt	ggaaacaaag	gnggttaaaa	aggngggata	360
tatgaattat	gggggggcat	ataanacttt	gcagaactta	cctgcncctt	atatattttc	420
tgccaaaata	gntgttggtt	tgatg				445

<210> 146
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 146						
gtttgcctgt	ttcctctggt	tccagtccaa	gcatttgtgc	tatccttcga	gtctttacaa	60
attgccctga	aataatatgt	gctgtgcctg	cctctgtaca	gttcagctca	cctttgagac	120
atttcgttgt	gtttgtttcca	acagcgggtca	attgtgttgt	atttacccca	gaaatcactg	180
ctaaccaccag	cataccagcc	gccctttctc	gtgagcttgt	gagtggttta	cggagcagaa	240
aaagagttaa	tcgatggata	tgaattaaac	acaggaaaacc	agcactagag	gaacctcaga	300
ctccaggcct	aaaaccactt	gtgactggag	tgacgttaat	cacaaganaa	gggagcctcc	360
atggtaacag	gatgctgaaa	cctgacacat	acaaggnact	atgcactttt	caaagcactt	420
acatttgatc	actcttg					437

<210> 147
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 147						
gcttcagttt	aaaaggactg	cctgtcctag	ctgggattgg	agaattgaga	gaaaggcatg	60
tgatcctccc	gggacccaga	gagatcagca	gaccagaagg	cctacatgta	cactggaaaag	120
cccccaacc	aggaatccct	gtacgacttg	aggcattatc	tactgtgca	tggctgaagc	180
ggtagatgcc	atcattaccc	tcatttcaca	cctgcagaaa	ctgaggtata	gaaacattaa	240
ctggctctagt	cacgagggat	tctgtgatgc	ctgagacata	tgacctgccc	tccaagacca	300
taagtgcag	accaagaatt	tgatcccatg	tcctggnggn	cccacaagnc	tggggccttt	360
accattanag	caggggtttc	ctctgggggt	tctcttgtcc	ccaggggaca	tttggaaca	420
tctggaaaca	tttttcgttg	tcacaaatga	gct			453

<210> 148
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 148						
ctgaagagca	ttgaccaagt	tattatcttc	aactctctca	aaggggtgaa	gagagaaaag	60
caacactgag	tcaactggct	ggnttttcat	ccctttctct	tcttcagttg	tgggctggag	120
agagatgtaa	ttccaggaca	ttggccagcc	ttttgttatg	tggatacgct	ttacacaact	180
acagtttatc	catcagaatg	aaatacagac	aaaagctgag	gaaatcagtc	ttcttaatag	240
atagaaaagt	atcctttctg	cctccaaata	aaactgaatt	ataacattct	tcgtattttc	300
ctgggtacac	atctggttta	aaaattagaa	gttaaatttt	aaaagtaggc	agaaggtttg	360
gtttttagaa	gaaaagacat	tttaactgta	atagnggatc	attattttta	tgcttataaa	420
gtccaatcaa	agataaatgt	caaaccataa	c			451

<210> 149
 <211> 351
 <212> DNA
 <213> Homo sapiens

<400> 149
 cnaactgaga aaagcaaaag atatttgcca atgaacaata acctggatgc tcaaaggatg 60
 ataaccctga ggttgaggga taccaagtac cttgtccaca attcagcaac aatgggacag 120
 gtgtgataca aacctctttt tccatcttgt tctctttctg cttgaccatt gcaccattga 180
 gagaagtga aacttgggctg agtctacaag gggcacccaa aataacccatg gtgtgtttat 240
 gttcatttaa aatcataaaa tttgtgtagg aaataaaaaa aaaaggccng cgaggccnat 300
 tcagcttga ctaaaccagg ctgaacttgn tnaaaagggg gggcctccca a 351

<210> 150
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 150
 ctctggggag ctctgcatt nctacctncc ttnagatana nctgnnggct ggaatgtana 60
 agtggacttt tggccacgtg gatgaggaat tgaagcagtc agttctgatc tagagatgga 120
 aggcgcctgc tgaggacagc agggctgctt ggcacctggt gtccctgaat ggctctgtgg 180
 agcactgcct gatggcctac cctggactgt tgcctgagac agaaataaac ttttatcttg 240
 ttcc 244

<210> 151
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 151
 gttttcaagc aaantggcng taattggaag aaggnaaaac gccaggggtg ccttaattta 60
 gggnccggtg ctccnaaagg tnattcgggtc cccgggtttc ntcaacttgt ngaatggatg 120
 gaaaagcaat gngtttacca tttgggcgga aattttgaaa aatcattgga tggaccacaa 180
 gaagcttggg ggaaaaaatt tggttgttgg aaacctcaca agggcaaggg ctaaaaacaa 240
 aggttgtggg ggggggtggga tcaagcccca agaattttga ccgtngccaa acctcaaaaa 300
 gaccttggga aaaaaaatgg gccaaagaaat aaaatcttgc tttccatccc cgcccaagggt 360
 tttgggtttt caatttggta cttggaccaa ccttcaagct tgggcanttc atnngggacc 420
 canttgnaaa gaaaagccan ggaaccgaaa aaaaccccn ccnngggang ggggaaaaaa 480
 atcctnnggg gaatttcttt ttttnttaa gggggatggg taaantacca ttattatttt 540
 tacnnaaat aaaaaaatgg ccctcatggc aca 573

<210> 152
 <211> 845
 <212> DNA
 <213> Homo sapiens

<400> 152
 gctacgatgc tggntntaaat ctttggcntg gcttggctca cttcttttgg ggttccacca 60
 cttggccttt tattgaagct tggtaanacac ttcnaccant ggaanggggt cttggcaagc 120
 tttcacttcc ttggaaaagcc caggcggaag aaccacaaaa aacccaccc gggganggaa 180
 atgaaacaag ctggcaagga acgcgcgcgg ccttttaaag atgcctggta aaccacttca 240
 cccaaggaaa ggggtccgca agctttcact tccttaaaaag cccaagccga agaaccaagg 300
 gaaaccccc acccaagaaa gggaaaaaaa aactcccgaa acaacatctt gaaaccatca 360
 agaaaggaaa caaaacctcc cggaacacc gccttgcctt tttgaagaaa cttgtgaaca 420
 cttcaccccg tgaaggggtc ccgcccgtt tcatttcctt gaaagtcaag tggagaacc 480
 aaaaganacc cacccaaatt cccgggacat tgtttccttc actttcctt taataagctt 540
 aatttaaaat ggtgaacttt ttctcgaggg ggttgggctt tttggaccat tnccttttggg 600
 gaaaacaagc acttccttaa tcaaatgggt cacccttnc ccttgctttg ggtttttgn 660
 ttatttaanc cactttattt gggccatctt cttggggcca naagaatttt attaaaccnc 720
 caatttaaaa tantcccat ttggcttacc caagccttcc ctttcattat taacccctt 780
 tgccccaatt aangcaaggg nccccttata aaacaaaaat nnggggcttg nggaggccaa 840
 aaaaa 845

<210> 153
 <211> 582
 <212> DNA
 <213> Homo sapiens

<400> 153
 gtgcctgtct gaaaaccagt tccctctatga ctgtgatctc caagtgatca aagtcttgtc 60
 ctggaagcca gactagtgat atgcaccttg taccttgctc ctcaaggcac caacaaatag 120
 gaatccagag caactttctt agctggagtg gcttctatgt ttctgactgg actttcacgg 180
 atacaaacag tggggctctt tgcaaaacac tcttctaagc tttcagaagc aggtcataaa 240
 gccgaaaagg acatttctgc ctttctctga agcagggtcat aagtccctca ttagagaagt 300
 atcctcccta tacctgaaga aaaggaacat ccttatctat gaagacacag gaactcagag 360
 aagaatctga acaaacaggc cttgcaaaat gccctccagc ttcttgccat tagatcatac 420
 ctcttttttc cggccatact tctccataac tatccacttc ttcatacagat ctagcataaa 480
 aacccatctg gtttactggg tggcttgggt cttcatttnc ttatgaangc tccgcataacg 540
 taaaaacnta cggttaaaaaa aatgggggatg cttttctttg gt 582

<210> 154
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 154
 atgcatcagc agaacctacc acacggcacc tactgcgggc ttcagttttg ctgtagaacc 60
 gagaaacatc acgttagatg ctttagcaac aacaatgtat atgttgcata gaagaaaagt 120
 gtcccagaag aacagccagc tgctctttac atgaaattgt ggactgcct gtaagaagta 180
 tatccaatga gaacttgctc tcaccatgta atacttttaa tgggtgagcc atttcaacac 240
 ttacatact gccgagtaag tttctacaga actttctcat tgtactcagc gctgtctgtg 300
 cagttaattt aggcatacaga aaactcagtt gttaattttc tgacttgctc ctggactctt 360
 aaatgctatt gctccaatca taacacgtcg gaacacttac gcagatttca acaataatat 420
 ccacagctgg gaataaatca aagcagggtt atcactggat aagtgctatt ggaatatggg 480
 taccaagaca acatgaagca aaggacagat ttcactttag aagattaaga cagagccctg 540
 ggggggaaaa aaaagaggta atcccaacaa agtctatgca accnttaaaa aatattattc 600
 agagcagaaa tgcagaattg gcctttg 627

<210> 155
 <211> 598
 <212> DNA
 <213> Homo sapiens

<400> 155
 caaaactgaa aaactggntg accttncgct tngnntncaa caaaccaaga ctagctttga 60
 ctatgacaat nggtatctaa ngaatgccag acaggatgga tgaagaccag gacacaactc 120
 actccaccaa actgtgatgt tacgtcattt accttggtcc ccaccactt tgcttttgaa 180
 tgaagacgtg tcccagcnn ttgganaacg agaaggaaac acgccaaatt aagggtcnnat 240
 ttacatcaac agagaatata gaggtcagag agaggaattc acttaactta taggaaaaacg 300
 aagtcataat ttggcacatc gagttttagt tctttgagaa atgaaaatcc tcancaaaaa 360
 gcttttgtct gaccagctgt gaggtaagaa tgtgcaagaa gtcaaagcaa gcgaggaggc 420
 ggagccggta ctgtcctgga aagcaaaacc cagaaagggt gcgaatctgc tccaaagctg 480
 cctcttttct gctcctaagg aagatgcntt ctcangatac agggattttg tgtatgaaaa 540
 aaaaatggcc atagctgctt acagaanaga atgggtggna atgccaattt ttgactat 598

<210> 156
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 156
 aacctcaggc caagtgttct tgacagctca tccacagact ccactggta aagcagcatg 60
 aggatggctt ctgttatattt atttcagaat ttttctctgc agtggcatgc cagtaccagc 120
 tgaggatcat gtagcaata tttgccttct ttcactcttc acctaggatg gctttaattc 180
 tcttcgagga gaatttattt tagtttttcc cagtaagaga atccacttct cttgcccata 240
 ttcataaatt atcattaaaa attaaacttg gtacaataaa tatt 284

<210> 157
 <211> 759
 <212> DNA
 <213> Homo sapiens

<400> 157
 ggctaccctc gtgntganat gaatnaactg gcncttgng gccgaaaagc gagngccnc 60
 tttgttttgg gagggncctg taccctcgcg gaaacctttt ttgtcccgaa ccaagccaa 120
 gcggaatggt ttggtcttcg gcctggccaa ncnaagcccc cccaagangg ggccaaagct 180
 tcttggtgga aactaagtcc caccttggtg cgggaaggcc cgggggtcaa ncccaaaagt 240
 nccccggnca nggccaagca atcggtcatc gggggcccta taagcnggga aaagaaagaa 300
 aaagccacaa gncaaatgat cttggcttga aaaaaatggg ggggnntant aaacgggaag 360
 tcttcgcccc tgtcaccaag gcttgggaag tgtgccagt ggatgaagaa tctcagctca 420
 cttgcaaacc ttcacctcct tggggttcaa aagtggattt ctttcttggc ttcaaccttt 480
 tccaagtaa gcttgggaat tacaagggcc ccggnccacc atgcccaagt attttttggg 540
 gggccaagaa gggangggaa aanggaaagg ngggggtacc ttggaaaacg aacaagcttc 600
 ttttccccctt ggggaacttg gnaagcaatt nccgaagcac caacaagtcc aaccccgcc 660
 aagcctttttt ggtttccttg gcacaagtct tggncntntt naaagaaacc aacnaacttc 720
 cattattttt attggacgaa tnaaaaaaat ttgggtagg 759

<210> 158
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 158
 tcagaactng aggcnaacct tgccaaggnc nnctancccc ttgggggcn tnaactttngc 60
 cntaagggcc ntntngnncn caancccttg acnaaactta anggagtccc ntcgaaacctg 120
 gggccaccac ctttcttcac cttttgcaag gcaaggaagg cccggaagg ntaagccctc 180
 aagcgtcaac gaagttcaaa agancctggg ttaccagca agtttgcccc atctgctcaa 240
 gggatgtggg ctttcttctt gatgaagtaa gttgaaagt cttgggatgt gaaatcaagg 300
 aactcggagc tcaaagttca atgaagtacc ttggaaaatt ggattgggga agctggccca 360
 aggaaaatca ggaaagaaaa naagtcctga agattcaagg aagaaagtaa aagcccgct 420
 ggcttganaa tgggggtggg ccanggccaa accttgatca agggcccgag caaaacccgc 480
 actctttcca aataaaagct t 501

<210> 159
 <211> 736
 <212> DNA
 <213> Homo sapiens

<400> 159
 gntaccnact ngnaaccagt ggatnnatca ancacgaagc cctcactttt gacntcttng 60
 cannnngna aaatttggag ctgggatttc attgcccatt ggcaagatgg ggaananggt 120
 tancctttgg cttananaca aggangggaa aaacccaann ctttnaccan aaaagaaanc 180
 ttgganattc tttgggggtt ttggaacang aaccgggttt acctgggcat tttttttaac 240
 aaaaacnacc ctttaacttg gcttatttaa cccggccttg cttcaatcaa cccacccttg 300
 gggccctggc ccccaagtgg gccaatantg cccttcaccc aacctatttg gcanttaagc 360
 ccacaaggcc caaagaataa acttataata tcaanaaatg gaantaagaa aagaaaaatg 420
 tggttcactt gggaaaaact tggcttgggt ggaagcccc cccaatgggg gaagcttgaa 480
 ggagcttggt gtctcttgca aggccattgg ggggaacttg ggccacaaa gccaaaagaa 540
 gtcaagcanc catggaaaag cccnggagc ttgtaaccgg tgtgcaacca aggccgcca 600
 attccaaaca agcatggggg aaaccaacaa gtngngcgcc aatcatttt nctcaattta 660
 ttngggcnaa aaaaggnggc tatttttttc acccttgggt aagggtggtg cnttttttga 720
 gaaacttccc aaatta 736

<210> 160
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 160
 aagacatata tcatgagaga gagagattac agtatgcaat ctctcagctg ccaacagaac 60

acagatgggc	ttgggaacag	agaatgatcc	agatctgcag	gactggagca	atccgtggga	120
agtttggaca	gaagatctga	tgcataagac	agtaaaggac	tactgaatgt	tccatgatag	180
atatgcttgt	tcttttgcct	gcatgccctt	gaataaagac	attttgatct	ccaggaccaa	240
cctgagaaac	atataattta	atctagtttt	gaaagaagag	ccctgctaca	caaatactgg	300
ctcacaatgt	taacagatat	caactgaaat	atcaaagggc	tttcatattt	cattaaattg	360
actatcctat	gtgtttgata	tttccattta	attgaatatt	tcttaactca	atgaaaaatg	420
tatgagcctg	ctgtgataaa	tcccgtgtcg	catatggg			458

<210> 161
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 161						
cagaaattga	gaatcatttc	acttttgggg	gaacgggaag	ctggttgtgn	accaccctta	60
tgtgnacctt	cctgtccttc	agctacatcn	gatgaacctt	gggcagtga	ttatctaagt	120
cccattccaag	cttccagaaa	gaactgcagc	cccagctgac	agcttgactg	caacctcatg	180
aatgtttctg	agctaggacc	acccagttgc	ttctgaattc	ctcacctca	gaaaaactatg	240
aatacaataa	atgctgatta	tttt				264

<210> 162
 <211> 882
 <212> DNA
 <213> Homo sapiens

<400> 162						
agtcaganac	tngaagccca	tactttccca	attgccttcc	aagcttgttt	gcaccgggan	60
ggtttcaaca	atcantattt	ttccaagaaa	nggcttcctt	gggaaaagan	ngtggaaata	120
ttggtggtcc	ccaatccaag	aaaanccttg	aatggggggg	anttggtgaa	ctttgggctt	180
gcttgccat	tcctttcaat	ggccaagccc	caananaaan	atctggtggt	caagccccgc	240
cacaaaccat	tacttggttt	aaagccaagt	ggggaatgaa	aaagtggcca	aagccttgcc	300
caaagaaaaa	aatgggtaaa	agggaaaaat	gtttgcccc	aagggaaaga	aaacacccat	360
gggcaaagat	nggaaaccaa	gtaaaccagg	gggccacaat	caaggggggg	anaacaccga	420
aaacattacc	gggcccanta	aaaacttcct	ttaattaaga	ananngtcta	ccaagattaa	480
aatctancag	atgaacanat	tcctcaaat	tgggaacttt	gggccattg	aatttgggnt	540
tggcccttg	ccattactng	atggaaaact	actggatggt	ccaagcttg	gtctgaaang	600
gacccttac	ccagaaagcc	ttaaattcan	tcaaaagaaa	atggcaaatt	tccattatn	660
cctaaatgga	attcaaatct	tccttttacc	ccttggaacc	caatcaaggn	ggggncccaa	720
aaatttttcc	caacccccct	ttggccttcc	ccaaaaaacc	ccccaacccc	caanaaacn	780
tcttttaaaa	aaaattaaag	aaatctttcc	ttccttaact	ttccttgga	ttcaanccnn	840
cccattgtna	atccatttaa	aacctcntnt	ttgcttgga	aa		882

<210> 163
 <211> 828
 <212> DNA
 <213> Homo sapiens

<400> 163						
cagatactga	gaacacaaca	aaaagaacct	gtcaccacaa	caaagagggg	aaagtggacc	60
aagtggctta	tcttgaaacc	ttgtgggtcc	ttggggaagc	ccaggggtga	accctgaata	120
atgaacatct	aaaaagaaag	cctttctggg	aacttcttga	aacaaagaaa	tttcggtggg	180
ccctgccaaa	agctttgccc	aatttgccac	ttttttcaaa	atgccctttt	gggaatgaac	240
ccaagccact	tttaaactct	gaaaaccttg	caaccaagaa	ctaagcccaa	ccacctgggc	300
ccatgaaaac	tttgccccct	ttcacttgga	tctgggaact	tcaaccttct	tggancccta	360
acggcctttt	aaagccaaag	ccacttaact	tggcactttt	aacaagaaat	taaccccaac	420
ttgggaatcc	cttggggaacc	caacaagaaa	ttccctttca	aggaatccct	ttctttggct	480
ggccaagaat	ggaaagccaa	aagggaaatt	aatttcccc	ttcaaagttt	ttctaagtgt	540
aattttccaaa	aagccaaang	ngngnggtgg	aaaatttccc	aagtaaccaa	gaaaaccaag	600
aaggggttggc	cccaatagaa	agtaantttt	ttaatcta	aaccttcccc	tttgggtacc	660
ctagaaaaaa	ngcttatttg	agaactaatg	aagctccacc	agaaccangg	gcctttcgcc	720
ancaaaacct	ccaaaatcaa	taaattggga	ccatggtttt	aaatggatta	cctgggggaa	780
tcnttgata	ggccctnnna	aaaaggggga	nangctaatt	aaaacaaa		828

<210> 164
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 164
 tggagaaaat gggattggga aacagaaggg agaagaaact gggcntttac cataagaagg 60
 ttgcanaaca ccccttaaaa acctaaccct ttaaaatggc agtgggaaaag cnttcaacat 120
 ggaggcctcg tctaatttaa aacaaaccac acagacncac ttggcccaaa agcagcgact 180
 ggcctctgaa gannaaaagg tggggccctg caagtactgg gctgggaacc acctccacat 240
 ctgaaagaat gctgtttgcc tgtatttgct tcccaacgct ctcccttccc ttgcctgggt 300
 gcctgttggg cctaaccatgg agctctgccc acagtaagtg tcgttactat ggccactagc 360
 ccataccaag gcatggcctt tgcaagtccc caacatacag ctcccgacct cacaagcaag 420
 nccatctcta ntgctggnc aagagtaaaa gttcacacng ggcggggcaa aaagtcctgc 480
 tcattccaan gnancaacgc accctnaaca agcttttccc aaaangcaac tcaaccactc 540
 tttagaatth tttttttttt tnaaaaaaaa cggggnntaa ggaacttggc aaaaaaaanc 600
 ccccnagntg gaaaaancct ggggaaaaan tttctgggnc ccccccccg ggctgaactt 660

<210> 165
 <211> 643
 <212> DNA
 <213> Homo sapiens

<400> 165
 cagaaactga ggtatattag ttcttatatg aatggacaga agaaacnatg gaaattggag 60
 ggaaggggaag angaacnct anangggngc ntantttngc nccccaggtg gnccttcaat 120
 taaaagaacc tttggcntcc aggggttcaan gtggattctt tttgcttcaa gccttcccga 180
 gtaagctggg gaactaacag ggtggtcaag gccttcttga cccaagcct aaagcccatc 240
 attatcccc tgggtggatct tgcacctaac ccattcccaga atggccctga aagtaagtga 300
 aagantcccc caaaaagaaa gtgaaaataa gccttaactg gatggcattc ccaccattgn 360
 gaatttgttt ctgccttcac ccttaactgg atcaatgtac tttgaaaatc tccccgcacc 420
 cttaaaaaaa ngttctttgt aattctcccc ancctttgaa aaatgtactt tgngaagaat 480
 ccanccttct ggccgcaaaa cattgctctt aacttccacc gcctatncca aaacctataa 540
 gaactaatgg ataatccacc accctttgct tggacttctt tttcgggact canncgcgnc 600
 tgnaccccc ggtgaataaa aacaagnccc cttgtgtccc ccc 643

<210> 166
 <211> 629
 <212> DNA
 <213> Homo sapiens

<400> 166
 tcaganactn ggagngaaga acaagctttc ccaagggcct ggaaaagaag gggggaagtg 60
 ccgggaacca ntgccttcn ccantaacca cttggcccac ttcttgggtg aaccttcttg 120
 gcaagcaaaa aaccctggaa acccccaaaa gaaggcaagc tttcttcaaa agtaaaaaaa 180
 gtgggaaatg gaaagtthcc ctgggtggaa ccctggaaat tccccatggg aagggaaaaa 240
 gatngganaa aaggggancat ttattgccaa gggaagantg ggcattctct ggtccccttg 300
 ggttgaaacc caanattcca ttaagggaaa gaacgggtgc caagttgttg aagggtgggg 360
 acccttggga cccttgggaa taaaaaatgg ggggtggtta aaccaaaagt aatttgtttg 420
 aagtaagggt tgggtgggga aggggaaggca ccgactaaga tgcaaggggg tctaagcttg 480
 aagttggaca aagaagctaa ccaccagggt tggtgggacc aagggaacagg ggggggaccc 540
 tttaaagccg aaaagaacac cctgcccagg atggtggtct ttggttccct ttgacctggg 600
 gggagaaggg cccctttggg ggggggtggg 629

<210> 167
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 167
 ggtgaagcca gatgggagtg ctgagcttca gggagcagct acgcaaagt aattgtgctc 60
 agcaaagtct tctagattaa gcggctgctc caataaagt tcttgattct gtccagaaat 120
 cctcaactcc gacaataaga agtgggttga ggggcagttt gaatacataa tcaaaaagca 180

tataattgaa gattgaactt gagctatagc ttcattgtatt gtctctgcgt tgttctatatt	240
taatagttgc atatggagac aataaagcta catgac	276

<210> 168
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 168	
agacgtctgg ggagcctacc tgcattaagt ccanatactg gagagaaatt caagaacctt	60
ggaaaactta ccccaacctt tcttaacccat tggcctanta accnatggan caccctttaa	120
ggaangtggg gcaggaagta acccccggan agggaaaagaa acccctgggn taaccttgga	180
aatggactan tattggaaaa caacanggtt ggcctttana taacccttc ggantcaact	240
tcaacttaac nggaaacttc ttntaaataa aaaggtanta atttttttaa agcccaatt	299

<210> 169
 <211> 540
 <212> DNA
 <213> Homo sapiens

<400> 169	
atttctgtga atagaccaga agcccgacct ttacagtgtg tttggggtgc agaaaacctt	60
ggctgacata ctcaaggctg aaatgcagtc agcggaaatg gaaacacttc aactctgccc	120
ctgtggcaag aatggcttcc cttcagacaa tctggccaga ttctttatgg acccaatggg	180
agaaattgga tgcttgata tacctctcag catctttgaa ggggactga aacttcaatc	240
aaattgggga aagggagccc tgaactttag acctgtttta aatgtgcaga gtggcaactg	300
gcacaaggaa cactttccat ctgtaagaaa gaatacaaag aacttggaaac aagaaaaaag	360
tagatatctc atcagtcaat ggtgctgtat aggcattgcac aaagatggag atgtgagcac	420
cgacaagatg gctggcatct ataaggcagg aagagatacc tcaccagaac ccataatgc	480
tggcctctga cagtaaaaatt ctanctgttg nactatgaga aaataaaaatt ctgtggttaa	540

<210> 170
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 170	
ctgaatgaag acaaatctta gccctctgag actgatggtc tcagaaagta gtcttcagat	60
taccagcttc agaatcagct gatgggttca ctaaaatgca gattcccagg ccagtgagg	120
actgaataaa tcttagtttc ccaggcttta caggaaccat ggtgctcagc ttctaaggag	180
gcctcaggaa acttacaatc atgggtggaag atgaagacgg agcaggacac agagtccacc	240
ctctctggag aatgtagcca ccaggcacca tcttggaagt gaagactgga cctcatcag	300
acaacaaacc tgccagtgcc ttgaccttgg acttcacttc ccagcttcca gactgtgaga	360
aaataaactt ctgttcttta t	381

<210> 171
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 171	
ataatgacga ctgcaaaatg gcaggataag gaccgtccaa aaagcctcat tgatgaaagc	60
aatgagaacg ctggcaaaaa tgatcagaat cggctttttc agacctctgg aaattaacca	120
aagatttgca gtgaggaatg aaatttcagt gaaaagcaat atcctagcag ccactggggg	180
ggagaactga agccgagctc ccccaaagcc tcttcccgga gaactgtcat tatctgagct	240
gcctctctgt tccgtggaag actctacttg caagactatc tttgcctgat tgactcggag	300
cttaaccggt aggaacagcc caggggcatt tgtt	334

<210> 172
 <211> 351
 <212> DNA
 <213> Homo sapiens

<400> 172
aacagttcta gatctccatc gttataaaaag agtattaccg tgttggtgta ccacaatttc 60
tcaagaaaaa cattagctaa gccaagctg gattttgatg gataacatgc tgatgttgta 120
acaaggctgg agcgtggcac atctcacaca tgcaggtgaa caccacaatta ccacgcctat 180
gaactacaaa atcatctaag cagattttta attagccagt tgtttcccta ggatcctcca 240
aagggtgatca atacagtttg tttttttctt ggtggaggga tctcatgatg aactaatgaa 300
tcttaacatg aattgtaagc aaataaataa aatgggtatg ttttaagccat t 351

<210> 173
<211> 376
<212> DNA
<213> Homo sapiens

<400> 173
gcatacctca agatcagttg aattggagca cagctggatg gaggcctcag gttaattaac 60
ttccttttgag agcatccaga aaattagcaa ggacatgaga aaccattcac tcaggacgac 120
caatcagcca ggacactccg aaacctatta aatcagattt ttaatcttct aagcctgtag 180
acaactgtgt gacatcagcc acatcctcaa atcttaaggg aaacacgaat acaagaatac 240
atgtgtgcaa ggaatcatgc ataaaaggat tgtgccttca gatcaagtcc aactgttttt 300
atttgtcatc aaatgtgaac ggagatatgg gtactagtcc caggaatgcc ataaactagc 360
agtgaatcac ttcttg 376

<210> 174
<211> 513
<212> DNA
<213> Homo sapiens

<400> 174
atatgtattc tgcaatcatg accaaacaga aggactaaat ctggatcaga atctgaaatg 60
taaaaagggt acttgtcaac cagccattg ttttccgttg gagctagcag agcagcctcg 120
gctgcacatt cctgggacgt gaataatatc ggttgtgatt acacttcagt atctcatcca 180
ttaccagccc tgtgaacact gaataataacc taattaggaa atgcgaaggg cccttttgcta 240
gggatgagtg ctggggcagc agaggtccac atgccttccc gacacaggga ttcaccgggt 300
ttcagacaca gggttgatc ctgcagggt caaggacaga ctttactggt ctagtccaca 360
ttccttgat aatcaccagt aagctgagaa tgtgacacct tggattccat cctatgttac 420
actcctcttt aaatgcattg caaaggagat atgccaggac ttgataagtc aagtcaattt 480
caaataggta ttaaagtatt aaatgaagtg att 513

<210> 175
<211> 432
<212> DNA
<213> Homo sapiens

<400> 175
gtatgttgca ttgtacaaga tgaagttaga gtgtgaagca tggaacaaag tgcttattga 60
gccagaaaat actgcccac cagctctcaa ggcaaagaga ggggtgtacga gaagctaatac 120
ttcaaatgag aggtggagac ccagctggca gctagcatgg tgcggcgtgt tggaggcaag 180
aagcagaatc tcagactggc aagatgcaag ggcaggcagc ccaccacag ggaaggcgctc 240
gccaatcttg agcaactcta gaagagaaac ctgaacacat cagaactcaa actaactgat 300
aatgaactgg ttttcattac ttcttgagt atcaggaggt agaattgtct cttacaaccc 360
aatgtatacc attctcagtt gtctatttaa ggatttctta gtgagctcca tggtaaaata 420
tatctacttc tt 432

<210> 176
<211> 387
<212> DNA
<213> Homo sapiens

<400> 176
aggggcagac ccagggtggga gtactgcagg ccacgcccct cgaagacagc atccacgtgg 60
tcttccgata ctagcaaggt gtgtttggca gccgggtgcct caaggattgt tctggaagga 120
tgacatcact caaggtgtga ggaccagca gacagagcac acgccctggc tccatgcccc 180
agaggcccat ctgaggagcg gacaggcagc ctttcccacc agagtcacca ggggtgaggac 240

gtctttgagc	cattccctac	tctgagtcac	aacctcgtag	ctgattaagg	ccacatggga	300
agcttcccat	tccctatact	tcccctgatg	ctctcaggaa	ggacaatttc	gggctgaacc	360
aaatctggat	tattaaagtc	aatttttc				387

<210> 177
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 177						
gttgctacaa	taattccagc	tgtgtatacc	tcctgggac	ataatagaaa	tgaacctctg	60
aagcatctta	ctgaagaagg	cccctacgtt	gactgtccag	ctgactgtct	ctacccgact	120
gctgtccac	acaatatggg	ccaggcgatg	gtattgcctt	tgcaaaactaa	atgaagtacc	180
tcaaagtga	gctggtggcg	acttcagagt	taacttttca	aatggccggg	cttatataga	240
ataacctttg	taaaagtaaa	ctatgatcat	ataataagat	acatgtgcat	ttggaacgcc	300
actgcttttg	gaacctgtct	cagtttttat	catcatacaa	ggttaattgt	ctaattgtcaa	360
ttagatttta	tcacaagtgc	atttggtgct	taatctggaa	caataaaaagt	ctattaaacg	420

<210> 178
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 178						
ggcatcttga	agcagaccag	ccacgttgca	agtgccttga	ggcacggatg	actggtggct	60
gctgttcttg	gagacagaat	cctatagcat	ccccagtcct	gcagcacaca	ggtgggacaa	120
ttccagcttg	atgtctcagc	cagcggttcc	ccacgtcctc	cccgcctctc	ccaggcagaa	180
gacagagtga	cccaggtaac	caggaaaaca	aggccataaa	aaaggaactc	ctactaatga	240
aacctcctag	attccaagga	ggaaaacgta	gctctcagac	caagtccgtt	ttcgcccttg	300
catctgaaaag	ggagtccggg	gaattgctaa	ttttgaactt	tctatacacc	cttctctgct	360
ctggatgtgg	ccgcctgact	cgaattcctt	tgcacaataa	aatgaggggg	aaaaaaaaatca	420
c						421

<210> 179
 <211> 115
 <212> DNA
 <213> Homo sapiens

<400> 179						
aatacgttcc	agaggacaag	gactgtgttg	ttcatcacag	tattccagaa	cttaaaaagga	60
actggcacat	aattggagct	tactaatatt	cgtcaaaaaa	atgaacaaat	gagggc	115

<210> 180
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 180						
ataagagtga	gcattttttg	aaatgtgatc	aactgacgca	aaatggcagc	aacactggaa	60
ggaagaatca	ggaggatatc	ttagaagata	accacagaat	ctttgcaaga	gacacagaag	120
actaccttac	acctgggttc	cacaggagaa	atgggtcaaa	atatgttatt	agttgaacag	180
taggaaaaat	gtctatggtc	tcttcagcac	catctgtatg	tagtctctga	gtctccagtt	240
tctcatctat	gaaactggga	taataatatg	caatgagagt	tattctgaag	atcaaataag	300
atagcatgtg	aaagcagttc	tagattccag	acataagagt	aagattaaaa	gaaatgttgt	360
tctcaatttt	cttgtgtcat	tgctgctgcc	atctagactt	aaacaaatgt	tactgtgaaga	420
gccaagtaat	aaactaacac	atctaatacg				449

<210> 181
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 181

gtgatttttag	aggaataaac	acccttagcc	gtcagccaac	attttacaaa	tgaaggccag	60
caagggaaag	gagctcactg	aaggcccatg	ctcattaatg	aggaagcaaa	aacaacagca	120
cacagcctct	gttcccagg	ccacgctcct	cgattttctaa	gcgctgttcc	agtccacaca	180
ggacaagaca	tccttttttc	ttctagaaca	acagctcagc	cccacctgaa	agaaagagtt	240
cattgatact	ttttcaaagg	cttcacaact	cagctttttt	ggagacttca	gcaaaataag	300
tcattatctg	gccaacttta	agaatgaggn	ttgctaaatg	tatcagcatt	ctgaggntat	360
cagaagactc	tgcacacttg	catatctcac	aaataccgnc	aataaatata	tagnttcatt	420
tcctcattgg	ttcacaaaaa	aaaaaagggc	ggccggggcc	nttnancttg	gacttaanaa	480
gggtggaatt	tnttaaaagg	gggggg				506

<210> 182
 <211> 510
 <212> DNA
 <213> Homo sapiens

<400> 182						
gccccagcgg	atggaactca	taaataaaga	gtgagaaatg	caanttatgc	cagangtttag	60
aaagccaggc	tccttgccac	agcaagaagg	ggatagctgc	agcccacgga	gaaggagaac	120
cagtaaagtt	agcaaaagca	ggcagaagaa	gtttctaaag	caacatactc	tgc aaagcag	180
tctgggcat	gtactgtagg	agcaagtgc	cagcagcccc	cgggagcatg	aatggatata	240
gcaactgttg	ttgaaaaaga	acaatcctga	tcaaccacac	tcaaaggcta	atagacctca	300
tttaagaaga	cagggaaatg	taaatctgtg	agatacttca	ggatcatttc	tatcaaaaag	360
cgtttcatat	aataaaggaa	taaagcctca	gttatctgga	agggtcnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnng	ggccgggggg	gggccctttt	tttngtttt	aacccggmnt	480
tntttttttt	aaaggggggg	ggccccccca				510

<210> 183
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 183						
gctcggtgac	taggaagagt	ggctgaaagg	ccccacctct	gactcctccc	tgtttctgat	60
agcctgagtc	ctggggggaca	gagggaagcg	cctctgggtt	ccctctccg	tgtgaggcag	120
acagcctccg	cccaggctct	gaggggccct	aattcttctt	aacagacagc	agtttgaggc	180
ttctcccaga	gtgaccagg	agccagccca	ggagtgggtt	agaatagaca	aaggaccggt	240
agtatccga	tgtgaatttt	agaatgtgta	tatttcatac	ataaaaatag	aaatgtatat	300
gaatgtaata	tagattatat	atattattat	tatgtaaaaa	cagtatgtgc	acatgataaa	360
tgagcatatc	tacgtctct					379

<210> 184
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 184						
gacccacctg	ccatgctgtg	aggacaccca	ggccacatag	agagagttag	gccacatgta	60
ggtgttacag	ccagaagccc	cactgaaaac	caaacctgca	accagcatca	actgccc aaac	120
atgtactgaa	gaggctgaga	tgattccagc	acttggtgat	gactgcaacc	acatgagaga	180
cccagagcaa	gagctacct	gctgagccca	gttactccca	gaatcatgag	agaactatgt	240
aattgattgn	tattactata	taagccactn	ngtttncntn	tgatatgtta	tgcagcagta	300
gacagctgga	acaggag					317

<210> 185
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 185						
gtgcagtga	caaccacgac	aggcttcaca	tcatectacc	tggtcagaag	ttgccaccat	60
taggacaatt	aattaaattc	aacagtaaag	atgctgccat	agttaatgaa	tcattgttttc	120
cctggagctt	tccacctatt	caaaggacaa	gtttcagagc	ttggatgagg	agcaactatc	180
ttatgaacac	agagacattt	gtcagtttta	aagggtcaaat	tagatttttg	ctcaggttcc	240

cacccaaatg	atagacttga	aaatcaggat	ttatcaaact	atgttctaaa	ttatttcaac	300
atatcgagtg	tattagtctg	ttttcatgct	gctgataaag	acatacccga	gactgggaat	360
aaaaggagga	ttaatttg					378

<210> 186
 <211> 688
 <212> DNA
 <213> Homo sapiens

<400> 186						
ggntccccctc	tgttgncan	ggctgggnagg	cnnggggcg	gaaccttnnn	taactggaac	60
cctgggcntc	nggggnnnaa	ncctaatacng	cggtgncntc	gggcctggcc	aaaggaagcn	120
gggggaattaa	caggtccggc	gccgtcaccc	aangccccgg	ctaaaattat	tttggcaatt	180
tttttttggt	agaagaacgg	gggggttttt	ngcgcattgg	tttggcccaa	gggcttgggn	240
cctacaaaaa	antccctggg	ccctcaaagg	ccgaatccca	acccccggct	ttcgaacctt	300
aacccaaaag	gtggcttggg	ggaatttaac	caagggccgg	nggaagcccc	acccggccgc	360
cccggggccc	aagcctggga	ataagttnct	ttaagtgaat	caaanatgaa	cctggngggg	420
gcttgggaaa	ccctcaagg	gggaaggggg	gccctnnacc	cttctngggg	naaaacnnat	480
cctgggggatc	ctggacaagg	gggncctttg	gcttccattc	accccaaggc	ctcaaaagtg	540
gaaagggggg	caatgaancc	tccgggctca	acctggcccc	ccttggaccc	tnccctggaa	600
gcctcnaaaa	gggaancctc	cccancctca	agccctcaaa	ggaanaannc	taagggaant	660
gganggcnaa	gganaccaat	tgcccccc				688

<210> 187
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 187						
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ctcttttcta	atccttcaag	tcatacctga	agatccgcag	tttttctgga	gacagggtgaa	120
gtccagcccc	tgaaagacgc	agacagtgc	gagagaagag	cctacgtttt	tatatTTTTTg	180
tcaaggtgat	gtctcaagca	aaatgaagt	gtttgtggct	gaaacaacct	ccacgggaaa	240
gaaaactgga	gtgttcgttc	atccatcaaa	gaacaaacgc	caacgtctga	gccaacgacc	300
ccagctcccc	cagacaaagc	agtgaacaga	ttaaaggatg	ggaggaagga	tacaatcaaa	360
atcgggtggg	gatggctggc	agataaaaa	atggaacgct	tcac		404

<210> 188
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 188						
gcagaaggcc	ccanaaggnc	cgcaagaact	ccccanaaag	gccngcaatn	mntccgncaa	60
gaagggcccc	gcngaacntc	ccgcaagaag	ggccccgcaag	aactcccgca	gaaagtccgc	120
cacacangca	aagggaaaaga	tgccctccgc	gtccaagccc	ggcttganat	gagcaggccc	180
gangagccaa	tggcgcaaaa	gaagngnccc	ggntntcccg	atcggnant	cctcataact	240
ttncctttcn	ttctggacca	aggtaaagcc	cacaagagnt	atgggaaaaa	agncttggg	300
gggaaaggaa	ancnggtggc	cggaagtcc	ttcttcccaa	ccaagggncc	cactnaattt	360
atngggagga	aacccaaaaa	ggcgtttttt	ccttaaaaaa	cctggaccgg	gggacaaaaa	420
tccgaanngn	aacctggacc	cacttgagn	accattggga	cctttcccn	taaacctttc	480
aaaatctngg	tgggaagaag	aagggccctc	aagaaggtcn	ntccactccg	cctattntca	540
atttatcaag	gg					552

<210> 189
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 189						
acttgaact	tatgtttccc	ttttaatcac	aaagctgaag	aatagacaac	tatacgacct	60
atcatgaagc	aggaagaaaa	aaaatcatcg	acatttttga	ccatgcaaat	gagcattttt	120
tttctgcaga	ataaactaag	gctaacaaaa	aagacaaaaa	caactgatca	ttcgtatgaa	180

aacctaatta	tttgggtgat	ttttcaaaaag	gtggtcagct	aattatgtgg	tatcatctgg	240
accaatgttt	tctaggcaag	cctagatggt	caacttttga	gagagtttat	aataaagttt	300
gatttgttta	tgcatac					317

<210> 190
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 190						
tgetgctttt	agaccagtcg	cacaccaggc	cgaagaggtg	agaggggtgag	gtgtttccca	60
caagaacatc	cacatcctca	ggatggatgg	aggagcaagg	acgagaaccc	ccaacccccg	120
agacagtttc	tggctccttc	cttccaagaa	gccctacaca	tgatatccac	gttgaagccc	180
tcatgcaaca	agctactcat	tctctttctc	aaaggaagtg	ctgagtgtct	ggcaagttgg	240
aaagaatgag	ggattcttct	actgggttac	ctggtcagct	ccgaggagag	ttaaaccagg	300
aaaagtagtt	caggctggta	tacctccctg	tttgtccttg	agggcaactt	aaaagcacta	360
tttacacaag						370

<210> 191
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 191						
catgccatgt	ggacgtgacg	cctggagata	tcgcacccac	cttataatca	ggaggaagaa	60
tgccacgtgt	ggaggatggg	gccacaggaa	tctggaagag	ctcgatcctg	gacgacttgc	120
tcaagcagct	gcacattcct	cctgccacct	acttctggat	atttgtttag	gaaactggca	180
tgagcatata	catccattca	gaggaggtga	aagtggagtg	actgatgcta	gaatccccac	240
cttctgagtc	aacgggtccag	agaacaaggc	caaaacagcc	acaaatactt	ttcagggttc	300
aggatcaaat	tttttattct	tgaatgatcc	aaacacttta	agaaaaataa	agtttctaga	360
ggaaatcaac	aaaagtgggn	nnannnnann	nnnaannnan	aaaannnnnn	nnngggggcg	420
gggggggc						427

<210> 192
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 192						
ctttggtgtc	tgcacagtcc	cacacgagcc	aagcccggct	tgcagggtca	agctgtcttt	60
tcatagtggg	aaaaagctga	tgaaaatcct	tcacacagag	gtgttaagag	cttaatgatg	120
aacactcccc	acctgagtta	taatttcaca	agaatttgaa	ctttattttt	ctgcggagag	180
tcacgtgatt	tgtcctgcgt	gccaataaaa	ctactgatgc	cagctggcct	gaagaactcc	240
atgaagatct	gactgactaa	agaatgcagt	ttccaatcct	ggtgatttca	tcccccttat	300
cccaagcagt	caataacttc	tactttccag	cctcttgctc	tccacgatcc	ccttaaagac	360
tctagcccaa	aactccccag	ggagatggat	tgcaggattc	ctctgttcgc	tcaactcagcc	420
actctgcaat	cattaaactc	ttttctctgc	tgc			453

<210> 193
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 193						
tctgtgtcat	gctgccttct	gtagcaacaa	cggctgntcc	ctgnttntgt	gccacatgcc	60
aaactattca	acatntgcac	atactctcct	agtcactctt	aagggtgttt	cataatgaag	120
aaactgaggc	cgtgaggact	gaggggcaat	gctgcagcaa	tgtcaagtcc	attcgggtga	180
ccacgtgcct	tccatctcca	aagacacagt	ctgtgtctct	taaatacctc	ctgacaaact	240
caatgtgcag	aggcaagata	gagcaagttt	ctgctgcaaa	ctcaccacca	gtagtggatt	300
ctaagcccan	ctncctgcca	atgattcttt	gcagggncac	agcttctgtg	cctgttcacc	360
tagggctggn	tnaccacagg	gangganent	gattggggaa	aagcattggc	ngtnncagaa	420
tggaaaangg	gacctcaaaa	ttttgtctta	ggg			453

<210> 194
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 194
 gcttttggca tctccattca ttccggaaca gccagtcagc cctctctgct gtgtcccaga 60
 gcaccaggaa gtgagtaaca gtcctagagt gagacatgga ggatacagcc aagtatcaga 120
 ggagtgtctg ctcgctgctg cttctacacg tcaccgtact ggggggaatcc tatgtgaagc 180
 cgccccatgt cctgtctgcc tggataactca ccatgcagat agctctctgc attcagcagg 240
 gtctggctta gggcctctcc tgggggcccg agaccctctc gttcttctcc agaccctgca 300
 gaattctgga gaggagagga aggtggaaca cacactttct tinctgtttt ctanggtgnt 360
 ggggcatctc tcttcttctt ttaactacga acttcacagn ccaaccactt tctctttttt 420
 acaagccctt tggggtcctt caagaaccaa agtaaaaaaa agctttaaaa atg 473

<210> 195
 <211> 127
 <212> DNA
 <213> Homo sapiens

<400> 195
 ccattgacct ggatggacct aggacacaca ctaaaggaca catctggatt caccaaggag 60
 ctttttatat ctcacaaaat agcatgttgc taataagaag aataaaatga aaccaaggta 120
 caaaatg 127

<210> 196
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 196
 agaaagaacc ttcagggnntn gggaggtggg ncttttctntn cntnaaaacn atgatncctt 60
 ggggtganccg nnnnggattgn cccacaancc ccgatggaaa cattcaanag gngaagcct 120
 tgctcanaac cccctggcca ggcttaggag ggaaaaanta tgctttccaa cnttggcaag 180
 aaattgctgc atccanaggc tgcagaagcc ccgaggagca tgaacatgct ttggaagaat 240
 angcgtgcc ttgagtgaca tctgaacca gacccttaca cacacanctt tcattggtgg 300
 cttttggggt t 311

<210> 197
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 197
 caactgtgga agtcaaggcc agaaatcact cactatatca tctgatattc ctctgatcgt 60
 tataacctatt ctcaagtgtta aggaaatgag accagttgaa acgtccacat taaaataaga 120
 agaaggagag aaggttttct aattgcagtt aatgtcatcg ttaaataaag aatgccataa 180
 aggaacgaga tcagcagtga ccttctgcac agtttccaaa gcctcgccaa cctacctccg 240
 tgtcctggtc tgacttatgg cagaaacaga agttcaaaga cctggctgat atgctccgtt 300
 aaaaaccctt ccacaacgca gttaacattt tctgntttct gactttcttt ttctaaagag 360
 atgcttaaaag caaaaaangg ttcttgcccc aaaaatgaca ttaatatattc gtaaatcaag 420
 aactaagata atggtttngg ctgctacaga gaccgttacc cttatgcggt tatctnaaag 480
 cttttcgatt aaaacac 497

<210> 198
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 198
 atctgaagag aagagaaaacg tgaggggaaga acaggcgggtg gcagccggaa gagagtgggt 60
 ggaacagtcc ctgcaactct tcagagaaaaa gaaagggggcg ctggcccagg cccaagaagt 120
 gtccctgggg gccgatgtcg gcaggaatcc ccgcactctc acatgcggaa ctgagagaaag 180

tgcctggcag	attcaatcat	acagtgactc	aaatgtcaca	gcatgactat	agagaaagaa	240
taatagtggg	agcatccccg	ccaattttca	acagaagggc	tcaggataag	gaagcttaag	300
aaaattgccg	aagagaatga	taatgacaat	aataaaaaa	aatagcttcc		350

<210> 199
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 199						
caggtgaata	aggtgggatt	tgaaatcagc	atggcagtgt	ccagtgggaag	aagggagctg	60
aagtttcttg	aggatgaata	taaagctggg	ggagttatca	ttgagcctaa	ctctctgggt	120
tggaacccat	aaacccta	caatatacct	cccaagttta	caatagaggt	gagtatatct	180
taccttactc	catttccatc	ccaacttccc	cactttgtaa	actttcagaa	ctgacttatg	240
gaggtttata	acagccagat	atcaaacc	tagac			275

<210> 200
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 200						
agaaagagga	aaggaccagg	agtggcgacc	ggcaaaccac	agcttgtgtg	ggaaggaaat	60
ttgacatgtg	atgcaagcgg	accgtttgtg	taaactgctg	ggagattaac	aacaactgtg	120
agtgggaattg	ctgagtcatg	tggcaaacta	ccagtctctg	tgaacctcag	ggccatcatt	180
ctgttcatgt	cagctcggtg	tagaaccaca	tcgatgaaga	ccaagatggt	aaagatgaaa	240
aattgtagct	aacatttact	gcacatttac	tacaagccaa	gcattgcact	atgaagttta	300
agtgcattat	tcattaacct	cttcaataaa	atttgaatt	ttcacttcag	aagc	354

<210> 201
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 201						
gttggctgat	tgtggaggct	aaagcaactc	taccttgcca	gcttatccac	catgtggact	60
tctaattaat	ctcagttgcc	ggaatgcctc	taagatttct	acgttatcta	ctgtgaagag	120
caagtaatta	ctgcaaatcc	tgcccttggg	tcaaaacaac	cttgatgaca	tattccttct	180
gaagcacata	tactctttcc	ctaggtatat	aagccttggg	tctgggggct	aacggtgcag	240
ggatccatca	tctcacagcc	acccaagaca	tggcttttgt	tcaaaaatcc	ctattaaatg	300
tttcattctg						310

<210> 202
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 202						
gtggttacaa	ctgtggccgg	ccactgtcct	aacaagtcag	aagagagatt	ctttgccaaa	60
atcttcaggg	gaaacgacac	gagtaccctt	tgcttttcct	caacgaactt	cccttctact	120
taggggtttta	gggcatttgt	acaaatgatt	tgctccttgg	gtctgaatct	tggggatggt	180
tatcattttc	gttgctttca	gaaaatagtc	tgcatcttct	tctattacct	ggaccatttt	240
cctggctttt	taaaaaaaaa	ttattattca	aatggaaaag	cggcgagccc	agaatgagcc	300
gacgaattga	gctcttcctt	ctctcgaaca	cgggggcacc	tctacccgct	acagacttga	360
agattttact	cacttccttt	catcccctcg	ctcgggtttg	gagggtaggg	gcatgaagtg	420
gntgaatcta	aactggcaga	aaacct				446

<210> 203
 <211> 88
 <212> DNA
 <213> Homo sapiens

<400> 203

gttcatatca tggatcccat tttatagatg ggaacactga ggcttgagtt tacacgagaa 60
 tttgctgaag aggagaagga aaaaaaaa 88

<210> 204
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 204
 ggctttttca ctcattccct angcatgtgg gacctcnaag atgccgaatc agctaaacgg 60
 gagngggctt gagtangatt tgctgccagc taaagcgtga gatgctattg catgtgcaag 120
 gcaaggcttt cttcancggc atcatcttnc aaaatagccc agngagcatg cttttctcct 180
 gaaaaataaa aaatagttgg tgtttactgc g 211

<210> 205
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 205
 agttcccca ggcagaggt caggaataa gagctgagtg agacctcca aagcagatca 60
 caaagagaag gggacactgc accatggagg tgacacaggc cagtggccac ggtgctggac 120
 ctggggctga gaggaccac atgtatatcc tggccgattt aggtatctta gactttctgt 180
 gcctcacttt ctttatctgt gaaatcagca ttctgatcat gactaaataa aaattgctgc 240
 cattg 245

<210> 206
 <211> 325
 <212> DNA
 <213> Homo sapiens

<400> 206
 gggtatcctc acctgtgata atcctggaat cacacttctc tccgcgtaca tgctggcaga 60
 gctcattctc tccacttggg aaggaggcta caacttacag tgtcaagatc ttaccagcgc 120
 aggggaagct gacatccgga ggaccaactg aataaaccac agcacatcca cgtagcggat 180
 gcctctacca agtggagtga ggaagagctc tataccgcta cagaattgtn tctgggatat 240
 agttacatga acaaaagcaa cttgcagacc gtgtttatag gatagcacc tttgtgcaat 300
 aatgatatg aatgcaaaaa aaaaa 325

<210> 207
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 207
 aactgtctac tggctgcaga taagagaatc tctttatggg ggaactgaaa acagaagaaa 60
 aatcaaggga taatggcatt tgagggttcc tcaatgaccg cccagccaca tcacaccgga 120
 gtggagcccc aacctgagag gctcttacc cagagcttcca gtcggcattt cagtggatca 180
 cttttaaaaa taaatgggtga tggggtgatg gaaatgctac ccccaaaata cg 232

<210> 208
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 208
 ccttgaatat gagcatgctg catgctgcag cagtatatag tgatcaaagg caacaagcca 60
 aggatgatgg aagaacaaga gagaagcagg ctggttcttt gacattggac agccagagtc 120
 ccagccctgg atggcctgtt ccagacatct tgtcaagtg 159

<210> 209
 <211> 329
 <212> DNA

<213> Homo sapiens

<400> 209

gggtgcgatt	tactggtgat	gagctctggg	accttcaata	ctaccagaag	attgaggaca	60
tatcagggga	gacctgttgc	ctcacttttg	tcccaatgta	tgacctgttt	ccacagagaa	120
acatgcagga	gaaattgcac	agatagaaga	actgaattaa	caatctccaa	gactgctgag	180
tggttttgat	ctgccttgct	tactttttca	gccgttttat	atgctgaaat	gtttccagtg	240
caaccagaag	tttcaagtgt	aaaattctgt	ctttcctctt	ctgttatatt	aagcttttaa	300
gacaccatac	ataanagcaa	ataaatgac				329

<210> 210

<211> 133

<212> DNA

<213> Homo sapiens

<400> 210

agatgggggt	ttgccttgnt	acccangctg	gataactact	cttgatgaca	taaaatctac	60
tgnnngcagn	aaagacagan	agcatncacc	ctaatacctt	agttatgaan	actacagaat	120
cagtagaaga	aca					133

<210> 211

<211> 270

<212> DNA

<213> Homo sapiens

<400> 211

gttctgcatg	ctgataaaat	gatcaacacc	tgctggctctg	aagggtctcag	caagaaactg	60
actcatggga	gaatgcactt	tccatattct	aatgacttca	tcccctttac	cctgaccaaa	120
cgataacccc	aattttctaa	ccccttgccc	tctccaatcc	cctgaaagat	ccttgcccag	180
aacccttcaa	tgaaatgaat	ttgagtctcg	agaattcctc	ctgtttcctc	attcagtcac	240
cttgcaatta	ttaaacaact	tgtctgctgc				270

<210> 212

<211> 355

<212> DNA

<213> Homo sapiens

<400> 212

gtggagagaa	cagcatgtgt	gaaggccag	anccggcccc	cggatctttt	canaatgcat	60
cttggtcagg	ggaggatggt	cggccaggac	acatgcatgg	ccccctggag	tcgtgcagct	120
gctggccttg	gtgggacttg	ctcagggact	cactgctggc	cttggggagn	acanaactca	180
nggcnttgtg	attccgaaga	ncnnggtctn	ncncctgcaa	ntgccgttnn	cagaatngnn	240
cccacccag	gaggatcacc	catatncaac	nccnggagca	gntcagcca	cnctnnaaac	300
aagggggaaa	cgccaagccc	attacattag	gactttttccc	tgccatcact	gggct	355

<210> 213

<211> 397

<212> DNA

<213> Homo sapiens

<400> 213

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catacatcca	cagccccagt	cggctgtatc	catgaagagc	tgaatggaac	aggatgactg	120
gcagcccacg	ccaagggcca	agagatgtga	aggtagaagc	agaagtttag	aatgacctga	180
ggaagaggtc	acaagcccag	gaatgccagc	agccactaaa	agctgaaaaa	aggcaaggaa	240
atgagttttc	ctctgaagct	gccagaagga	acaagcccag	ccaatgcctt	gaccctagcc	300
cagtaaaatt	gattttgaac	ttccaaaaaa	aaaaaggncn	gngnggcca	ttagnntngg	360
acttaaccag	gnngaacttg	ttnaaaaggg	gggggggc			397

<210> 214

<211> 141

<212> DNA

<213> Homo sapiens

<400> 214	
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tagtctaagc tcccaaagaa ctggatgcta atccctgtcc tgataactaac tcaccctggg	120
acattaaaca ggtcaaaaaa c	141

<210> 215
 <211> 96
 <212> DNA
 <213> Homo sapiens

<400> 215	
ttcctcctcc tgccatgggt tgactgagct gaacaaaccg gaaactttct taggaaccgg	60
gctatactat acatgtaatt aaaagttaat tatctt	96

<210> 216
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 216	
aaagaaaaac tacatggaat gaggaatat accactcctg ccttcaaaat cctcttcgtg	60
aggtttatag aattcctaag aactcaggaa agacatcagc agagagcaat gatcgtcata	120
gccagctcca cacagaatgc acccaccag ctacttgctg aattacaacc tgatgatgga	180
tccaccagaa actaagaatg gaaagggtat aaagaaatca cagcattcat cttctggaag	240
aaaaagacta tttcttagaa agtaaaataa atgaataaaa gcacttaata aggagcataa	300
cgcg	305

<210> 217
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 217	
ctttctctaa ggaagtgaca tataagctga gcctgaaaga tgaagaggag cagattgtat	60
gcagagcaga ggggaagagca agctgatgga ggtgactaat cagagggcct gatggtcaag	120
tgctcaaggt ggagttaaag gaaaccctgc tttcttgaca tcaccagctg ctcagaagcc	180
ttcagcaggc atcctagacc ttctccttct ctaagggatg ggccctcacct actttcttca	240
gctgagacct ggcacagacc cttggagctt ctaaggaccc cattgtagcc ttgggggtgga	300
ggcccatggc accactgccc tctccctggg ataaaggctc tggggccact tctcaaggct	360
gggncccttt nttaagaagg aaatgnnttt tcccaaataa cctnctcttc ttctttttc	420
ttcacc	427

<210> 218
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 218	
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ccagaattac ctcagtatca tagcgtaggt gctttggaga aaactgactc ctccatgcaa	120
taagtcttca gttgctttta gctttaagca cattctttca gtccctctgat cactgtcatt	180
tgtccagggg tgggcatgga ctttagtggt accaaaaaaa atctcgcatt cctatttgaa	240
atgctgagac agaagtacag gctctcactt tctctgcagt tggcagagag ggaatgtggg	300
ctcgattgct tctggcaaac attgtgcaag tcatgttggg aaaggggact tgaatgaag	360
cgaagattcc agaaaacaga acaaaccaaa agaaatggtg accactataa ctggcaactg	420
tggagcctgc cctatctt	438

<210> 219
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 219

gaacactatg	aaaagattgc	aaaaccaa	catgagaagg	ttagattcct	actgaaatga	60
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tctgtagaat	ggtttaattt	aaaaagtggc	tgctatcctg	gatgggggtta	agaagctgct	180
ggtactctgc	tctggatctc	cttcttcctc	gttggtctcc	tcccaacaaa	taactctcat	240
cttcaagtct	accaaagcgc	gctgacctta	gtagcataac	ctctaaacca	aactcaactc	300
ttaccttctc	cataaagctg	ccagaaattg	ctcctgcccga	gagtaattta	cctcttacac	360
accactgtta	tttactgtg	tgggactgna	ttcccaanta	aattgagaat	gtctaataga	420
tttt						424

<210> 220
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 220						
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tcaccccgcg	tgagacgtct	ggcaaaaata	gaaggctctc	gcaaaaccta	acaaccaaat	120
atgcaaagcc	ccaaatgaca	accaccacct	cctcgaacct	cagaggtctg	ggggcgctcg	180
gctggaactg	gggttttaaa	aaagaaaatg	tttacaaaagt	ataacaagat	gtttgatggg	240
tggaaaaatg	tatccacgag	ttacatcccc	ccgtttcctt	gcaaagcccc	gctgggtcttc	300
ctctcctttt	cttctgcc					318

<210> 221
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 221						
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ctgaaactat	ccatcagctc	tcctgggtct	caggctcctg	gattcaagct	ggaagtacac	120
atcaggtctc	ctgggtcctc	agcttgatga	ctcgagatct	tgggaattct	cggcctctat	180
aactgtgtgc	cccaattccc	tataataaat	ctttgtcttt	ctctccc		227

<210> 222
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 222						
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tgaagaaaaat	gctgctctgg	ggacactaat	tgaactttca	tctagcaggt	cctgtgccct	120
acctactcaa	gaacaagttc	tgtttgatga	agaagttaca	cagctgccaa	gttccctcat	180
tctactacct	atctaccccc	aaattcagga	atgtctccat	atgttgacta	tgengacttt	240
ttcagtgtcc	tagtggaacc	acagcttaaa	aaatgggaaa	tggaggcagt	cccatatggc	300
agagtctccg	atgtggaatt	aggcatcggt	ctccaaaagc	cagcctgcag	ccctttggag	360
agcttactaa	actataaatt	gtcaactgta	ttacatgata	aagcagatgt	gtccatacac	420
taactctttt	gctaataaat	gaggntctaa	ttccaaaaat	ag		462

<210> 223
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 223						
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tgctattgaa	gcaccttaat	gacataaaga	agaagaaacc	aatgaacatt	gttatatat	120
tcattttaaa	ctgatgtaga	cattttgagg	aaatctgcat	tttgaaccag	gttaactgtg	180
gaatgccctt	ggccaagagg	aggggtccat	ttgatgattg	gatggcctta	gaatttat	240
ttgggttaata	gtgccacaca	gctaaatcca	agagagtgtc	ttagaaaata	aactctggaa	300
acatatattga	gaaactaata	agaatgatta	actgtagagg	gaagtgtcag	gcctctgagc	360
ccaagccaag	ccatcgcatc	ccctgtgacc	tgcactatat	gcccggatgg	nctgaactta	420
ctnaagaatn	cccaaaaagaa	agnnggatttt	tgcccttgcc	cccc		465


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<210> 224
<211> 184
<212> DNA
<213> Homo sapiens

<400> 224
accattagaa tgtgacctct gtgaagacaa cagaaatgga ggaggcgatc catgggcatac      60
ttctgaagct gttttggtta actttgattt ggaagtcctg gttccagggt ctctctgtttc      120
ctgggaccag ctccagaagt tcattatatt cataaataat aaatgaatgc atactaggga      180
ctgg                                             184

<210> 225
<211> 124
<212> DNA
<213> Homo sapiens

<400> 225
tcttaacctt ttgagctccg ttcagcctgg ttaagnccaa gctgaattgg ccnatttcctt      60
tngccttttt accctggaag aaatactcat aagccacctt tgttattttac ccccaatctt      120
caca                                             124

<210> 226
<211> 374
<212> DNA
<213> Homo sapiens

<400> 226
atgaagatca ttgagattag agaagaaaaat gggatctggc caaggacata caactaagaa      60
atggcgggtgc cacagatgga gaaactgaca ctgagacagg ccaactgatc tgcccacatc      120
aacgagctaa aaaaatggca aggccaggat ttggccctag gcctgcttaa ctctgaagac      180
catgtgcccc gtctctctgcc aggccattta catcctcagg aggattgctg cagccccagg      240
acaggcgatt gcctttttacc accctcctgc cagaccacac tgctgctgtc cctgctcctg      300
taccctactt ttgctggggt gaaaaggggtg aaaggggtac cccactgctt gttgtacccc      360
accccaaatt ttgc                                             374

<210> 227
<211> 318
<212> DNA
<213> Homo sapiens

<400> 227
atgcaatgaa attaacctct ccttccaaga acagcatgca ggcagctagc tggaaagact      60
cacacttgag tgaatagcga cagctcgccc cttctgcgct ttgacgctgc tgtctctact      120
ggccacttgg tctaccagtc agttgtgccc tgtatgtacc cagccatggc tgggaagact      180
cacaaccaca agattgccta tcagtaggaa atacaggaaa ttacaggatg ggtatatgag      240
acatatgtgg tggatataaa gctcaatagt agtgatacaa gtgtcatatt cagaaaaataa      300
tataaacttt cttgctat                                             318

<210> 228
<211> 502
<212> DNA
<213> Homo sapiens

<400> 228
gcccagaggg gactgtggac ttggtgccag aaaagaaaaat gaaaagcaaa agttgaatct      60
ctgcggaacca ttctctggat gctgaatgtc ccactattac atctcggcac gacatttcac      120
ggccagcagg gaaggaggcc cagtcctgaa agctgaacaa acgcccggca cacaggcctg      180
cctgcgcctt cgtagtctct ctggacttat gaataaaaga tggaggtttt gtctctgttg      240
tttccttggg accctgtaag aataacaact tggtgctttt tgacatttta acttactttg      300
aaaaatgacc aatattaact ttacatgtct tggcccttaa atctggagtg gggtaaaatg      360
aaagaaacaa aagccatgta attangnaga agataataat tcaaggtaaa ctaatgaact      420
gncctgnacc actttattaa aanatggnng gacatgccat cccnaactaa aagnttaaac      480
ctgacttggg ggaaccttgg gc                                             502

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<210> 229
<211> 228
<212> DNA
<213> Homo sapiens

<400> 229
gagacactnc ggaaggcnca gaagatagaa cacagagggc naggccatgt gaanacagat      60
actgaaattg gagtgatgca gncacanncc aaggaatgcc tggagccacc aaaagntggg      120
agangcanga natagactct cttctatagc ctgtggagct ctggtaatac cttgnttttg      180
gatttctgcc ctccagaacc atgacagaat aaagtctctgt cttaagcc                228

<210> 230
<211> 395
<212> DNA
<213> Homo sapiens

<400> 230
ctccttctnc aaaaagtgga atccaagttg tctacccttc acaactgaac tggctacatg      60
acttgctttg ttcgaaactgg ctgcatgact tgctttgttc aaccaaatgc tgcagaagtg      120
acgggtgcaac acttccaaac ttaagaggct ttgcatgctt ccattccctgc tcttgatttt      180
gagccacccc tgtcacacca gtcaataagc tggctagctg aaaaacgtat aagtgagcct      240
gtgccaggcc agccagtgtt agctgacttt tcacctaact gcagacacat gtgcaaaccc      300
aacccaaata agccaagcct gaccagctc aacagaacta tcaggtgacc tatagacata      360
cgaacaataa taataaaaca aaacctaagc cactc                                395

<210> 231
<211> 178
<212> DNA
<213> Homo sapiens

<400> 231
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tcatctgact ttgccttggg gtcagatggg agaatgactc ctggagaaca cttagccttt      120
tccagctttc cccaanaaag gctggcccg ggaggcttct ataaaccttc tccctatg      178

<210> 232
<211> 299
<212> DNA
<213> Homo sapiens

<400> 232
ctcaccagag acctcaaatc cttacctgga ggtcaaaaaa cttgctgtag cgccggtaaa      60
tggcctcngt ggagccgntg gaccacgtga cccggatgat gtacacctgc gggagcaaca      120
aaangagatg ggtgttaaca ccagaagggt gtctcccaat ctctgggacc cagggggagc      180
ncaagactca nagtcanaaa gacgtggggt tcaaccttag ctctgccaat gactggctgg      240
acaagttgct tgctgtaagc ctcatctccc tcctcaataa aatgagtgtg ataaccccc      299

<210> 233
<211> 137
<212> DNA
<213> Homo sapiens

<400> 233
gngaggatgc naaganaaaa ggtggctgnc tgnaaccagg gagggagaan ctttcccagg      60
gaccaatcta gcttgaactt ttgactttgg acttcaacct ccagtattgn aaagaaataa      120
atatgttttc aaaagtc                137

<210> 234
<211> 216
<212> DNA
<213> Homo sapiens

<400> 234

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agatatgggtc	tcactatggt	caagtctaag	actcaaactc	caggactcaa	accatcctcc	60
cacctcattc	tctcaagtag	ctgagactac	agggatcgaa	agatgaagaa	ctcttggtga	120
agctcataac	tccttaatta	cttattatta	acagtgaaaa	tctgattttc	aaagttgttt	180
aatgggtcatg	caataaagca	atgtaagacg	actgcc			216

<210> 235
 <211> 281
 <212> DNA
 <213> Homo sapiens

<400> 235						
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gactgcagat	cttgggactt	ctcagcctcc	ataattatgg	gtgagaagca	ggagctcaga	120
gaaggtaaaa	gcatcaaaat	caccacagca	acaaagattt	ctcaggaaat	tataaatgct	180
gagaacagtc	ttgttttcct	tgcgttgga	ggtgactcac	tgcatagata	tgatcatctt	240
cagagcctca	ttataggttt	agcaattaca	ttttaaaaat	t		281

<210> 236
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 236						
cttgctagaa	gagcactgga	gatagagtcg	gatacgcttt	aaaggacaag	ggaaaacagc	60
tcacagtggg	tggtacacac	atggcaaaaag	gccaagagta	gaagcaccgt	cattaggaaa	120
aggaatcagc	caaggtccca	ggcaagaaga	ggtgaggcaa	atggaggctc	tgaggaaagt	180
ggctccaaag	cctacatgat	ggaagataac	tctggaagag	aaagagatga	ccgttcctaa	240
gcttgatatg	caaaacttga	gagaaggtaa	cgaagatgtg	acatctgaac	tcagagaaat	300
ataacttcta	tagaaaagaa	acaaggcctt	gcagctctat	aaggaacagt	aaataaatca	360
agtatgcaca	caagaagtaa	aaaaatatat	ccnagtagaa	aggaagcttt	tcattgaaat	420
gnccccagaa	ctcatgctct	tgganggccg	ggatngcaaa	atcaagnntt	tttttaaaaa	480
ctcctacccg	g					491

<210> 237
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 237						
aggataaaaa	agaagtaaga	aaatagagtc	tctgaatata	gatctttcaa	ctgaaaaact	60
gggctgtgaa	gcttttggac	tcaagtagca	gcctttcctg	agtctccagc	gcaactggct	120
ccccccatca	gattttggac	tctccaagct	tccacaagca	caggagccaa	ttccttaaaa	180
taaatctggt	tctatatcc					199

<210> 238
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 238						
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gctatgctgt	gtgacctcag	gactgggccc	actgggagca	ccatgtggag	aacagagaca	120
aactggagtg	ccttggggag	gaaggaggag	agcacagtct	ctgagtcagc	catgaggcag	180
agcaaataca	agtggtcatg	caggaagaag	agtgctggtt	ctgcggggtc	ctaagagggg	240
gatgtacggg	gggtgtgctt	tgttcaatat	gacaacacta	cc		282

<210> 239
 <211> 206
 <212> DNA
 <213> Homo sapiens

<400> 239						
attgagcacc	tgagagtctc	aagtaacaca	cctgggttgg	ctgctttgct	gaagacactc	60

cgtacattgt	gacttgttgc	tctcaccatc	aacaggaatt	gggctgtgca	agcaattctg	120
aaagaagtgt	tgtctactgc	tgtgaaagtc	atcaacttta	tcagacccca	gtcctgaccc	180
cagccttttc	aagaaatttt	gtctag				206

<210> 240
 <211> 472
 <212> DNA
 <213> Homo sapiens

<400> 240						
cacttggcac	tgtacnaaac	accttcatat	ataccctgtc	accctgactg	agcaggatcg	60
ctcagttcca	ttttacagga	tgaggtgaag	acttttcaaa	gccagagctc	tacctgata	120
gcacaccgtc	aggatgttca	ggaagagcct	catgggttat	tacagctcag	gatgcaccca	180
gacactgtct	ccatggcctg	cggagctgct	ctctgaggac	tcacttcact	gcccctcatt	240
tcccaggctc	atggagatat	actacctgtc	acctctgggc	ctggagggca	gatggaggta	300
agatgcaaag	gaagactgcg	tcgtcaaagc	agatggaagc	attccctaac	acctggggcca	360
tcttggttcc	taacttaatt	actaaagaat	aaggagatt	tcaaagnaaa	atgnncagac	420
atttgnttat	ttgaacataa	aactgggggc	cnccaccag	tattttggta	ac	472

<210> 241
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 241						
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agtatagctc	tgcaagcagt	ggctacggac	agtttccaac	atgcaagttc	atctccgacc	120
ccacttcate	attcctcctg	cccccagcac	tcttgatgc	tatgctgaat	tgttttggta	180
cctttgggtt	gtgagccttc	ttaaaccttt	ctttcttcta	ctttattatt	atcattgtat	240
tataaaagca	atagatgctc	attacttta	aaaatgtaaa	agc		283

<210> 242
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 242						
gcactgtctt	cataagtcca	caggtctcaa	actccagcat	ctcagaatga	aaggattcac	60
aagtgtctac	aagaggcttg	gctgccaggg	gaagctccga	cctgaagatt	tgaactaatg	120
agggactata	aaggccaaga	ccttggtctt	gccattttag	agattcagaa	tataatctac	180
aaagttagag	att					193

<210> 243
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 243						
cctgcagagg	tcanggagag	agccccgatgg	cggctcttaat	gaagaggaag	gaggaaagga	60
cgcagctttt	tttaccctcc	ggcttaattt	actccgtatt	cggcttaact	tactccctat	120
tctaccctcc	ggtcttcaag	ttcccttaag	ctcgttggcc	tgttaccag	taaaactaca	180
aggaaatggt	ctgtgtggtg	aattttgaag	ctgtccacag	tacagatact	ccagtgtctg	240
cccttcacga	aaagagctgg	acctaagggg	tcctcctgtc	tcacgtgcag	actcccaggg	300
cgggattaaa	aaggcaaaaa	tcnnngttt	cntngcaa	ccnnngnant	nngggnnnga	360
nnntntntg	ccnntntttg	gganggaang	aancanaatt	aatttngggg	ctntaaaggg	420
tttatttata	aangggcttn	gggnttctat	tttattgggg	aanaaatncc	ggganttaaa	480
aatntaaaga	cccccttcca	a				501

<210> 244
 <211> 327
 <212> DNA
 <213> Homo sapiens

<400> 244
gtttcttccta acaagaagct acgaagttct tattcagaaa aacggaacac gacatcacac 60
ccacgtgaaa aaaacgcttt taagaggcca agtcactttc acctcccacc aacttgccaa 120
aggctgaaag caggcggaca cgcccccaag cgctcttctc cgatttcatt gggtgccccg 180
gcctgtctct cattaggtct ctctcactgg tcagcaatgc cgctttcaca gccaatcttc 240
agaaccaatc atctccaact attgccccgc ctctccacca cgtgagtggc ataggtgcca 300
accaataaaa aaagaaaata aggatgt 327

<210> 245
<211> 100
<212> DNA
<213> Homo sapiens

<400> 245
gcangggcnt ccngnggttc aagggtacaa taanctgcga ncgtgccnct gantttctacc 60
tgggatgaca gagtgggacc ctgtgccaca aagagagacc 100

<210> 246
<211> 505
<212> DNA
<213> Homo sapiens

<400> 246
aaggctgtct cctgcgagga ccagaagttg agccaaggca cgtggaactt acaatagcag 60
atggtaagaa ccagggcaga aggagaactc ctgaagcctc cgaagggaagg aaatcattac 120
agggccctac agaagtaggt catgtgctac agctgctcat agtttaagag gaagaaacat 180
gggatctcaa acctggaaca cgactctttc aaaatgcctg tgagcaaccc aagaaaaaca 240
tcctcctgag gcttatctaa taacctgat ctctaatcgt ctcaatgtgt gctcatgttt 300
ccttaagaag tttgcaccca cttctcagag ctaacgagat gccgaaacag aacacagaaa 360
aaagtaatga aggagattta ataagntgng ntaaagctna tatggggccat taaggggcnng 420
gcttttttta aaacaanggg gnggaaccgt tcccctnttt tttgngggaa aagnnttttc 480
nggggcangg acctggaac cattc 505

<210> 247
<211> 139
<212> DNA
<213> Homo sapiens

<400> 247
ataaaatctc ctggcagaga aaatggacag tcgttccata ccatatgtct tctcagcttc 60
aaaatcaaca acaacaacaa caacaaaaaa ccccaaaact tccatcatct gcagaagtca 120
aataaaaactt tcaaacttg 139

<210> 248
<211> 261
<212> DNA
<213> Homo sapiens

<400> 248
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tatcaggata atcaccaatt cacaggaagt tgcaaggatg gtatggagag cttccattta 120
ttctcgggtt ttccccaatg attacacctc acataactgt acctcaggaa actgaagctg 180
gtacagtgtg tgtgtatagt tccatgccat ttcgtcttaa gtgtagatct ccaatcaaat 240
aaagaaatat cctgtcacca c 261

<210> 249
<211> 241
<212> DNA
<213> Homo sapiens

<400> 249
gtggggtctt tcagtatgta caaacatata tgattcagga taaaagatgg atcgtaaccg 60
ttctcaccac agaaaagtaa ccggagactc ttctaagaaa tcgagaaaag aacgcccttt 120

ctcctgccct	cctgtctaaa	gcgcaacata	ataatcgaat	ctcccaagct	tcttaggggtg	180
ctgagtgttt	taatccacca	gccctcttca	actagttaat	aaatcctttc	cagaccgaga	240
g						241

<210> 250
 <211> 505
 <212> DNA
 <213> Homo sapiens

<400> 250						
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atntgggtgga	agcaatccaa	ttgcctgcag	aatcatccga	aagcatcact	gggaagaagc	120
tggtggaact	aagaagcaat	tctttagcct	gacagccagt	ctgttttttag	tattttctaaa	180
catgaaatca	tctcaggaga	agccaagggc	tgtcgagggtg	atttgctga	ggctctacaa	240
ctcatcactg	actgtgtttg	gaggaaggaa	gtaattaact	ataaatgtga	ttataaggggt	300
ggggccttaa	tctgatagga	ccagtgtcct	tataagaaca	ggaagtgtgt	gccgttcact	360
gaggaaaagc	catgcaagaa	cacaaagaaa	angcggctgt	cttgcaacct	ngaagaaaan	420
ctttgcctaa	aactaatcct	gccgggcatn	ttaatcttgg	naattccagc	ctccaaacag	480
nganaataa	aggctggtgg	ttatg				505

<210> 251
 <211> 90
 <212> DNA
 <213> Homo sapiens

<400> 251						
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ggcctgcaca	taaataaaaa	ctccatatac				90

<210> 252
 <211> 589
 <212> DNA
 <213> Homo sapiens

<400> 252						
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tcttcccnc	taagcctccc	aaaagnctg	gggattacag	gcatgagcca	cgactcccag	120
cctgaaatat	annattttta	tcttcagctt	gcattttgtt	ctaaacaact	tgttttctaaa	180
taagaaccgg	gcagaaccaa	gtttaagcca	ccatttgctn	ggaggccaga	atcaatttta	240
ttgggtggtg	gttcaaaatn	gggaactggn	actaagcctt	ccttcttccc	ctccatcctt	300
cctagcccat	tgngcangg	gggaaatttt	tctcnttttt	tggnnggggg	taaaacaact	360
tctttccctc	attctgggaa	ttngcccttc	aacctaattg	ttggacaaac	cgaaaaaaat	420
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aacaangggg	gaaaattttt	ttttggcctt	aaanggnntn	gggggcctag	ccaccttgaa	540
aaaacaanna	nggcccgggt	tnacctttcc	gaatcntggg	gggcttcca		589

<210> 253
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 253						
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gcggnntntn	ttggngacat	cacgggnccn	ananaaaatg	gnttaattta	tgtaacaaat	120
cccctctgga	ggacaccana	actgnngggc	cccttntttg	ccctnatccg	cngaaagnag	180
cccgaatgac	cactncccag	gtncacaacag	cananggggg	ggccnntcna	aaaacnagga	240
ctgagaggag	ggaccccccg	gctttctggg	tcctgcnggg	gctcacaaaa	gttgtgaaan	300
tcattttatt	tcttgcntca	agacnttctt	ntgtgctggg	gngaanaaaa	attgaaacat	360
atgcttttaa	aaattctaac	aaccacggag	ttgngcattg	tgttttnttn	ccccagaaa	420
agcttttaac	agnggaaaaa	tttgntntna	agcttncctg	ggggctctnt	tcttggggtn	480
cctttccttt	tccttgaa					498

<210> 254

<211> 303
 <212> DNA
 <213> Homo sapiens

<400> 254
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 gtacaagctc gtctgaaaag agttggcttg caaatgggag aagctgtcca agaagtattc 120
 tcacaatgaa ataatcattt tattttgtcc ataccgacaa acaaccagtc aattcagctg 180
 gagggaaaaa caaacaaaca aacaaacatt ttattttcca aatttgtaat gagttcgctt 240
 aattattttt gggtttattgt gttatctaca tagttgaatc ttaaattctga attttcataa 300
 ccg 303

<210> 255
 <211> 441
 <212> DNA
 <213> Homo sapiens

<400> 255
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 tcngccaagc ctcttaaatg caaggccctg aagcagcaga gcttcacttc tgccacctcc 120
 tattggttaa agcctgtcac aaagcctgtc gagattcaga aaaagagaga tagaaccacac 180
 ctctgatag aaaaaagctg cacatgcata aagaaaggag aggatttgac agctatcttt 240
 gaagagtatc tgccccatta agccatggga tattttcccc ataaaagaaa ggactatgat 300
 ctggattgta gaaactgatc tatagacatg aatctgaact taagagaatt tgactaatc 360
 catctgntca aactggcatc actcacacat atttctgnaa ggattcactc ttccatgggt 420
 agcctcaata agaattcatg g 441

<210> 256
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 256
 aaaaatcctg cctccngtgc tcttgagtcn ctncntngcc tncaggnggg tcttggnca 60
 aagggggggg ggcataaccag cttaaagaac tgtgttcnnt tgnctgcaac cctgnagtac 120
 anngnatnng aagncccatg ctgctctgan ggcgtcggaa tatngancg atccttgctc 180
 cctactanac tctggtgcag ggctgcanat ccacaaagcc caagctgcag caagtccgaa 240
 ggcgcnccgc anggggagtt ccttctcagg agactgnggc tttgctctta cggccttcga 300
 cagaatggat gaagcccccc cccctnttgg anggtaaccc gctgcattca aaggcnaccg 360
 antnaactat taatcctatc tnaaaaacng gcttccanaa acaaccacac ttgtgtttga 420
 acaaaaactg g 431

<210> 257
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 257
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 atctactctt caatcaacag ctggtgccct acgattctct gaatcccttg cctggcctca 120
 aaatccctca cctcatggct tccaccagtc ctggactact gtgttcctta cacaacccta 180
 accaagcccc cacattgaca caccacactt aaagagnact gctaggcttc agaaaacca 240
 accttgctc ctctctccca gacaggccaa agccctctgg aatcagcgcc ctcccttcgg 300
 caagtgagta ataaactcag ctttgccctta cc 332

<210> 258
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 258
 gtgccaatat cggtcagaga acaggatttc agtggcagag ttgttgctat actgttatct 60
 cttcagaacg gaggcacaag gagagatgaa tgccacatcg caaggagcaa aggagagaga 120

gagaaagaaa	tggtgtcagg	tggcattgtt	gatgtgattt	ttgttttagt	agagattgag	180
atgactgtaa	attgttttagc	tgattccttc	ggctctgcaa	gatacatttg	tggtgggtgct	240
gatgggttctt	gactaatcct	gtttcaatta	caaattgggt	atgtttttca	aataaaaactt	300
ctggcactt						309

<210> 259
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 259						
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gaaggtgggg	aaaactcaaa	ggcacangct	tgtactgaga	agttttgagc	aatggagaag	120
aaagtgggag	cttctgactg	accttagccc	accacagtca	ggctncaaga	ngggagatgg	180
cctgggntna	tggtctgctt	tcttctgggt	nnccttacct	tttgggaaaa	ccccanggn	240
nagaaaagtc	ttcaagtctt	gtcagactgg	gaagtcccca	actcccaacc	tnaggaagca	300
gcccttgga	angagaagga	tgagattttc	caaagctatc	tcttaccact	ttccttnccc	360
catctcattc	cntccatnta	ttggggagaa	gncctctnaa	gttnggcctg	angcttctga	420
gggattg						427

<210> 260
 <211> 478
 <212> DNA
 <213> Homo sapiens

<400> 260						
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agaatgacta	tttcaacaat	ggcaaatagg	gttcatcatg	tatgcacact	ctgattgctt	120
tgtggtggct	tcctggatca	ctgggttgaa	aaagaccag	gctctgtagg	aggtgggtga	180
ttaatgatgt	ctgccattca	gaacaaagat	gtagcagcag	gtgtacctca	tttttgctgt	240
ctctggacta	ttccattgaa	gccttttagt	cctggattat	ccaattagcc	ctagctttcc	300
tggcagtgtg	atctccctct	gccttaatat	cagccctcag	ccctcgggat	tcttctctct	360
gatatccaca	ctcattgcct	ttgcttctct	gngctcccta	aaacaacgac	ttttcttccc	420
caagccnaat	tggaantaan	tcctacctcc	agnngnanac	tgcccccggt	cggcagcc	478

<210> 261
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 261						
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ccagcccaga	taagggatca	ccaccagaag	atgaagaaga	tggtatgtcc	agagatccaa	120
aggcaatgcg	ggcctcacag	tagatgccag	cacacagtgg	tgacaaacgc	ttggacaaaa	180
cccatcaatc	tcattgaacag	cagagaggag	aaacattgag	tgaggatcag	cagcctccta	240
gagcactagg	ctcctgcac	agtctcctgc	aacttagata	ccaccttgag	gtcgggggtg	300
gtgacaggtt	tcattgtcaa	ttgatgagtt	tgtttcaatc	taaaaaaaat	taggtggggc	360
ccagaatgaa	ctaagatgat	gtttttctgt	cttgganggg	accgggcctt	ga	412

<210> 262
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 262						
gctccagacc	tgtgtgtgca	ngctgcctcc	tggatgcccc	tcggttgtct	aatggacatc	60
tcaaaccctca	catgtctcca	cttgaaaagg	atgagtttca	tggaaacctga	gcatgcccac	120
atgcccttac	tcccttgtgt	gccccacac	cgtgcctgct	cttccttcag	ttgatcaggt	180
gaaaaccctca	gagtcacttt	taacacctcc	atctctctcc	tgtgccaaca	accaaattat	240
atccaaaatc	tgaccacttc	tcaccacttc	cacatggact	gctgtgttca	agccaccacc	300
atctcttgcc	tgcattagtc	cagcagtcct	ctanctgaca	tggggactga	gattcagaat	360
atttgggatac	aaaggtctta	tccttgaat				389

<210> 263
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 263
 aatgttaacc acaggacggt ccagctgtga ctcatgtcaa ctactgacaa gcaagctgga 60
 gtggccctgc ttttagagag cctgaagatc tactcagagt gaacaatact tgaagttcta 120
 attgagttac agaaaggaaa ctagtaaaaa ctaagaaaga ttgcgattct caccttgaat 180
 atgcagatct aatttctata actgtgttta ggggtatttt tctaaattac taaaataatg 240
 cttacatttt caaattggcc attaaatata tcttcagatg cggagatgtg tatattac 298

<210> 264
 <211> 470
 <212> DNA
 <213> Homo sapiens

<400> 264
 acagagctct gcaggcacag ctgaggacgg cctctctttg ggtccccag actcatccct 60
 gggagctcac aactggcaga gggagacaag ggcgctccaa gcagcagccg tgggggagtg 120
 gtgatctcca gcttcaactg ccgggcccgtg aaaacaggaa ccagccctcc aggccaccgt 180
 ttctctgaaa ccaaagctca gcaaccgaaa aaggatcaaa aaagcagatg gtggagggtgg 240
 agcgaggcag ctgtgcttct cagtgcctcg tgccgtcctc agcccatct ctggcacaag 300
 tgggtccaagc agcccaggac tccatggcag gccctaccct tgcagggtgaa ctgcctcggg 360
 tctnccagcc tccacattca catatttcaa acagaaacac caccaacttn ctgggctnac 420
 ccnttgggaa attccccaan gaaaacaaag ggggactcat atttgggcca 470

<210> 265
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 265
 ctgaggaaaa acctacaagt ctacttggag gaatccccag cattttcaac aggatgtcag 60
 aatgaccttg ggctatgttg gcaaagcaca atgggaagaa gacaaccaat tgaagggtcaa 120
 actaggcctt aaaaaaaatt gttcttccta aatgaaactt tatgtaagac ccaaacttcc 180
 tttatgtaaa aataggatac cc 202

<210> 266
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 266
 ttttccgtct gtccagctcc accactaaat agtgtcttta ttccgaggag ctacctgatt 60
 tgggactcag tcttcttaca aggcaaaaag agaagacctg gatgctccac gtgggtccaga 120
 catggagcaa gtaaaccgag ctctcgccac accgcacagt ctctcagcc tctgtctcaa 180
 tgtgctttca ttggaaatgc ttattgtaaa tgatgacact tttttaaaac caaaattcaa 240
 tttaaattcaa tacatatt 258

<210> 267
 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 267
 gataataaaa catgaagtgg aagatcttct agaccagcac cttaaatttg cagatgagaa 60
 agttggaacc cagaaaggct gagaggctca aggtctcaca actgtttatg ctcaactggg 120
 aaatgaattt gtttctcttg cccatcaggt caacattctt tccactcagc tatgccgnct 180
 cctacctcct gaaaagattc tagcaggacc ctctgatgaa aaggacctta tctttttata 240
 tctgctgttt aaagcttttt tttaaaatca tcgcacgatt ttatgagtta agttatgtac 300
 ataaacaaat actattactt 320

<210> 268
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 268
 gagcatgacc agcagactaa cgcagcaagc agatgatgct cctgatgaaa agggcagacc 60
 cagttgagcc tgggctacgc tgacacagac tttgttgctc ttcatttggc aaagtccctc 120
 ccagaatccc tgcaggcata caacagatgt tcagtaaaca ctcggttgat gagaactctg 180
 ggaagacata gctgttcgac gaacaggcat cagaatttat catttgaaat tatcaactca 240
 aaaattcttt ttttcctcat acatattctg cttatgtatc aaaaattatc ataagaaacc 300
 aagattttctc agaacatgtg aggtcaaaat ggcttataat gtaaaagaag tggagtctca 360
 atctatactc agtatctccc tctcttttat tcatacacat atggacactt gcactttctaa 420
 gaaaaaatga atttttttta actcattcat ttattaaatt gatatggatt aaaccangna 480
 atattcataa catattct 498

<210> 269
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 269
 cntctctgga gagcttncat ctgcaccatg agcccatgcc atcttctgac tcctggagct 60
 acagtgaaga tatattttgt attaatgctt aacttcttca tttcagttgc cattgaggta 120
 gcctaataac attcataagt aaatactgga ttttagtttg caatagaaaa accttccatg 180
 taatataata tgtctataca attaataatt aattactttg ttaaaatatg tatcttttaa 240
 taaataaaca ttggtagaga ccaaaaaaaaa aagaaaaaaaa aanggccacn gnggcccaatt 300
 cagctnngac ttaaccaggc tgaacttgnt caaaaggggg gg 342

<210> 270
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 270
 ccagcatttta tggatcttca gaggnntctc tctgtgataa ttccctcatca aattaccaat 60
 aagaaggata tgaaactaca gccccacaa ggatgcctgg tgaccttcgg ccctgagatt 120
 tacagtctgc ggaagcaata aagttcctct cctctctct 159

<210> 271
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 271
 ggcaccgcaa gacaacgtat ctcccctccc ctgtgcaatc agtcaaagaa catttagtca 60
 acctgaactg ggagcacagc gctcctgggg ctggtgggca ttcaaaagag tgtggatcag 120
 tgttaaaagt gcctcatgga gaaatggagg cctgaaagcg actctgaagg aggagtgggg 180
 ctgagcaaac agcagacgag tttcaatcca agcaccatt acccccctaa cacacggcat 240
 acgtgcatct catctcctcc tgtgtcgcta agaagctacc catatgtctg tcattaattc 300
 tccagaatcc ttggacacac ccctctgcag agctttctaa cagaaataca agtctcagat 360
 ttttttttaa gttaaaattg agtgcagcac tcataccttt cttcgagcat gaaccgtcaa 420
 tcaacactgc ctcatgagct actgntctcc tgctctttta aaagacaaan ccttattttct 480
 ttgtagngat cncaaagngg ngggattnac ccggaaactt t 521

<210> 272
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 272
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 actaaagcag atgttggagc acagagagcc ataccccaaa atatgatgct tcggcatgct 120

gactgctttg	aaaattgaaa	ggcctcagaa	ataatcctca	gtgccagggg	ctccctctga	180
cctcccccta	cctccctttc	tctctgatcc	tgtctctccc	aaagcacaga	atgagctggt	240
ctctgaattc	ccttatctac	ctagaaactg	gacccccaaa	gaggaacaca	atttgctttt	300
gatcccttcc	ctgaaatttc	attaaccaga	gaaaattaaa	acttctatca	caaggaagag	360
actgaacatt	aaacaccata	gctacagccc	agacaaactt	cttcccaaac	cattgtttgt	420
tctcctgcct	gttaaattgc	cagagaatca	ttcacaagac			460

<210> 273
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 273						
ttgacaggaa	ggcaatcatt	cattcattca	gcaagcaagc	aagcaagcat	ccacaatgag	60
cctggatgcc	acatggacca	cgatcaccaa	ggagatcgat	aaatcccaca	atgttggttc	120
ctgtcttcaa	aaatttgta	agaagattga	gatccactgc	tgtaagatta	cacagatgcc	180
ctcctcatcg	tctatgacag	gctataataa	atcttgccag	actt		224

<210> 274
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 274						
aggcgagaaa	ctgtgggata	agaggctgca	gcaattgcat	gagtagaccc	tgaaggtatg	60
aggtttgtta	aaatggatgt	tcagagaagg	cctgacacaa	gagggccact	ccatttgtcc	120
ccacggacct	gggcccggatc	tctcaatttc	acactgatgg	agcctgaaaa	tcaacaaaca	180
agacggcaag	aacaggggaag	acattgttct	ctccaaagtg	gacaatttgt	gacaggccca	240
ggaaggctgc	ctgggcttta	tagcttttcc	agtggttcct	aataaaccag	gctttgtgtg	300
agcctcgttc	aagccatgcg	gggcccgtgc	gtttcttt			338

<210> 275
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 275						
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cgatggcagc	tttgtcaaaa	agggggatat	gtagggaaaa	gagagatccg	actgttactg	120
tgtctacata	gaaaaggaag	acataagaaa	ctcctttt			158

<210> 276
 <211> 144
 <212> DNA
 <213> Homo sapiens

<400> 276						
acttcagttg	acccaggcaa	ctgaaaccga	ggaagcaaaa	ccatggaccg	tggaaagaag	60
catcatatag	gactactgta	ttatgtatta	taggtggctg	tggtatcaac	atacttagtt	120
gataataaaa	atgtttgcaa	agtc				144

<210> 277
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 277						
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ctnggctnca	aaactttant	antgancngn	ctgcacggga	ctggcgaaan	ggggctgaac	120
catcgaaaca	gggtattatg	aagccagctg	ggccaaatac	cttcaactgg	agaaaatggg	180
catttgagcc	gaacttnacg	ggaaaactaa	agcactcggg	aagttattat	atgccagggtg	240
ggattttggg	cctggtaaac	tttcttcggt	tggacacagt	gggtocccaa	gatacctttc	300
acgccatcta	tgtggccctt	ggggaaaaat	ggtttttttc	ctggagggtg	acacctgggc	360

aagaaagcct	tctaaagttt	catttgattc	gtaaagaact	ctctcctcac	aagaagcttc	420
aagcaaacag	ccctcaccca	agggactcca	tgaaatatca	aaagcccata	tccacatggt	480
gctagagggg	cttaaaaaac	tacaaagggc	tggagaaatt	tncaaaaaaa	actcaacatt	540
ggcttttttt	ccccctactc	a				561

<210> 278
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 278						
tgtaagctcc	accagagcag	cagactctca	taaaacctca	tgggatgaat	gaaaggagtg	60
tcatccctta	agacattggc	aacaaaagca	tagcctgaca	tattctacta	caagtgcctg	120
cagtaacct	tgcagagagg	agcaaataaa	ctccacacag	aaggtggacg	atccctgagc	180
cagagataac	tgggaactctg	gcagttttgag	tggacactca	gtcacacact	cacacactca	240
ctcacagcgt	tatgcaattc	caaaaattat	gtgtttggtt	ccaggaagat	acatttttcc	300
cctctaagtc	caaaataaag	atagaaatgc	atatatct			338

<210> 279
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 279						
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gggctgaagc	caggggaaca	gaaccagaag	aggattccct	ttccagagac	catcaggctc	120
ctcatgtctt	gtctctcctc	tctccccctg	tgggtggctca	ggatttcagt	atggctgagc	180
agcccatagg	taggcctcaa	cacttggtgt	caccacttca	gtctctatat	gtttggccct	240
tgtgtaaaat	aaacaaaaac	ttgggcaacc	c			271

<210> 280
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 280						
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ccctctcctg	gggtcttgag	gacgccacat	gtgggcgttg	ctctaaagag	cgcttgctcc	120
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acctaaccac	cacctttctt	cctcccaccc	ttccacaaat	acttattgag	catctgctag	420
gtgccaaagt	actggctctg	acaatgggca	ttacnngccc	tgaaagaaat	taaacnngaa	480
ccttcttggt						490

<210> 281
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 281						
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tctcagggtc	catgcttcca	gcattttatc	agacaaggct	gaagacagca	gacattaaac	120
ttcagttgtg	tgctccacag	aacattagct	gtcttcatca	ttactttgca	tctttcagtg	180
ataggctgct	tgacatgtta	ggaacctgaa	aatgatccca	tcttgaccga	atctcaaatg	240
cccttcctga	gcagcactga	tgaacacagat	ggagcacctg	gatgttatct	gctttggatc	300
tggttctcag	gaggaggagg	agcagaaggc	tgggcacaac	ggtgtttgag	gttctcaact	360
gccccagaaa	agaagggttg	acttgattta	cattgacttc	aacttgatta	tcttgatcta	420
cttaactggc	ttttcggctt	ttatgcttca	agcncnccgg	angantggct	tccttntggt	480
caacttgcan	gncttttgac	ttgggattta	ac			512

<210> 282

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<211> 393
<212> DNA
<213> Homo sapiens

<400> 282
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atgtgccctg caaatggcag tgccagtgga catatgctag atgagtggat gaaggacat      120
cccacatcag ctcatcgtgg agtatgcagc tcagtcctcc cgcctctcag ggacaacttg      180
gatcttcacc gttcttcgcc actaagaatt cnagtcatct acattcagag ggaagctgag      240
caanctggct cctgcccaca ctggaaaatt tctctgccta aaccagcttc cctaagccga      300
ggggagagtc caagatcccg aagatggcag ggccgtgcag gctcctggga ttaagacaca      360
aacaagccct gttctcaggc tgacagtaaa tgg                                     393

<210> 283
<211> 139
<212> DNA
<213> Homo sapiens

<400> 283
ttactcatgt cagtaagcgt ttactgagta tctcctgcat cctgggcact tctccactcc      60
aatgtgacag cagtgaatca aacgacagct agccctgccc gcaggcactt gcattccaga      120
gagaggagac aaagaatac                                     139

<210> 284
<211> 482
<212> DNA
<213> Homo sapiens

<400> 284
gtccttgatc tctgtggctg tgagacgatg aatctagggt gtcaccccag acaacgagggc      60
tgcttcaaaa tcccaaagtc caaaggagga ctgcttcata agggaaggat tgtttatagg      120
ttggtatact gtgcaaaatt aagtatagga ccaaaaacag ccaagacatt tgaaagttgg      180
aaagttgatg gtaatggttt cctgggattg gaaggcagac ctctccgct gatgagcaaa      240
taatgaggct gtgctatgat caaggcattg tgaccctgtg gacccacacg tacacatcca      300
gaaggctccc tggagccaga aagtctggga caacaggaaa accacaaaag aagaaaaaca      360
gctcctgtct tagctgatta gccaaccttg cgaccttcta ccattggaac atgctctacc      420
cttacttant aatncacttt cnggaccntg ggctntgtga cccctcccc ttgggataat      480
aa                                     482

<210> 285
<211> 241
<212> DNA
<213> Homo sapiens

<400> 285
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agctcccagc cagcattcaa cttgtcagta acggaagtga accatcttga aaggggatct      120
tccagtctcc aatcaagccc ccagcccaca ctgcttggaa cagagaagcc gtccatgctg      180
agccctattc aaattataga ttaatgagcc aaataaatga ttgttgctgt ttaagccac      240
t                                     241

<210> 286
<211> 222
<212> DNA
<213> Homo sapiens

<400> 286
gaagtgggaa tgatgcatat tcaacgacgc ctacaaaaat tacttcagat tgttagtctc      60
agaaacccac tggtggcctg aggggacatg caaaaagaag aggaacagga gcagagatgg      120
caaattatta aggtttcaag accttaaaag agacaatcaa agtattcaga ttctcagtaa      180
aattaccaga ttaaatcaaa taaaacccca ccttttttcc ac                                     222

<210> 287

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<211> 280
 <212> DNA
 <213> Homo sapiens

<400> 287
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 aactggctgc agaggaaccg gctgcagagg aaccagctgc ttctcctcg gaacatgaag 120
 aggtgaacag agagatgaag cctntttntc ctccctcacg tttntgaang atcaaaatca 180
 agggcancng ggagaaagaa taacaaaacc aacaaactgg aggtcaagga gagntttttt 240
 ctttttttta cttttctgcc ttttccattt ttaataaaca 280

<210> 288
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 288
 ggcttatctc cttgttgtat ccagaatcat atgacaagca agagtcctag aatatttttat 60
 ctacctaatc atcccactgc cttattccag aaagaatcta aggaggaatt tttattttctt 120
 cagtcaaaag atgcaggaaa gacatcctac ctcttggaag aatcattgga ctggacatcc 180
 aaacacctga gtcctagcct tgagtcctgcc tctcacagca gtatgaccct gggcaagtcc 240
 ttgtggaata agggcatgga cagaatgatg tcagagggtc cttctagctc taatattcta 300
 cagtttccctt ttagtcca aaatgtctaa cagtggttct tgtttgttat 360
 gaccagtgtt gncaaaagag aagttgtaca aagttttttt tgctgnttt tcatgnatgg 420
 gggagggggg gggat 435

<210> 289
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 289
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 ctgcaactca ccaggggagt gagtcttcac cctaactcac cggggaactg gaccgaccca 120
 gacaatttgt taagtctgtt ttccattaaa cataattctg agtctg 166

<210> 290
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 290
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 tgggccttag gaaattcgtt gatgttctgg tggattatgg atcagatcca aatcaaatgg 120
 gagccctgtg ttgcacgctg agccccgctc catggaatgc aggagcattg ccatggacat 180
 caattgtact catctccctc cccagccgct gctttgatgg gagcaccct gtccatgcag 240
 cagcattttc gggcaatcag tggatcctta gcaaactgct ggatgcagga ggtgacctgc 300
 gactccacga tgagaggggt caaaacccga agacttgggc ttgacagca ggaaaggagc 360
 gtagcaccca gatagtggag ttcatgcagc gctgtgcctc acacatgcag gccatcattc 420
 aaggcttnn tttccaactt cttgaaaaaa aaaaactccc cgcaggggtt tgtttacagc 480
 ccgtcctggn ggggttgggt tcttttt 507

<210> 291
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 291
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 tccccctcac tctgcacct ccacccccct gaaattctgc ccttaggcta cggggcgtcg 120
 tcttttcgca cctccccca tgcctgccaag ttgtagctat agctacaaat aaaaaaaaaa 180
 cttgttttcc ag 192

<210> 292
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 292
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 acaggggatg gtggaagtga ctctgtgtga cttgtgagac aagattctaa aagtcatgca 120
 cttctgcctt gttctcttgg gataactgct cttggaaccc agccattgca gtgaggaagt 180
 caaatagctc catggacatg ccatgtgtag gtgttctggc aaacagcccc aggtgaggtt 240
 ccaactgaca gccaacgtca accacctgac gagaatgagt cttccagcct tgatctgctg 300
 agtcacgccc aactccagcc aatactgtaa ggagcaaaga tgagctgttc tgccaattgt 360
 agcccaaatt gcagattttt gaataaaata aatgactgtt atcattgt 408

<210> 293
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 293
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 acacaaagat gaacataaag aagaaacaca gactctggcc tggagaagtt cagtgtctgg 120
 tgggggagac tggataaata atttaaaaca tttatttaac acataattac agtgcaatat 180
 gataagtaca atagctaaag tgtgggcaaa gtgtcgcagg aacaggaata aagaggagac 240
 aacttccaaa aaaatcttac atacttaacc ttttcccgac attttgacct gaaaataaat 300
 cagcataaca actcac 316

<210> 294
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 294
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 tatagtccag tgaacgacg ggaaaactat gaccatgaag caaatctgga gcaccacctg 120
 attttttaag gtagatttta ccgaaacac 149

<210> 295
 <211> 233
 <212> DNA
 <213> Homo sapiens

<400> 295
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 ccaggccggg cacagcaacc tggcccatnc atgtggagcc tgcagtgaca acttccgcta 120
 tctgcacaaa actggaggga ggctgggggt gctccaagta taagtttcct catcancaaa 180
 ccggaaagag aaagaccgac ctggaggctg gttatgggga taaaataaat atg 233

<210> 296
 <211> 143
 <212> DNA
 <213> Homo sapiens

<400> 296
 tgtacagagg aagaaccatt gtgaggataa agcaagaaga caaccgtctg caagccagga 60
 agggaaaactt taccagaaag caactgtgct ggaaccctga tcttagattt tgtagtcttt 120
 agaaaagaaa taaatattat ttt 143

<210> 297
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 297							
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aagggggcac	ctanattcga	accggggacc	tcttgatctg	cagtcaaattg	ctctatccct		120
gagccctacc	ccctctacct	gtaataagct	tcttccgtgt	ccacctacgg	tgactcaata		180
caatcaagtt	ccacccacac	g					201

<210> 298
 <211> 77
 <212> DNA
 <213> Homo sapiens

<400> 298							
gctctgatga	ttcttaagca	aagagatgga	agatggaatt	tcaaccccat	ggagatctaa		60
taaacttacc	cagagtt						77

<210> 299
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 299							
atgaaaaaac	tgaggctggn	aganggccnt	gcccctgccc	anantcatgn	atntgnccta		60
ngatggatgn	ggaatnctgc	cccaccantg	gnngcnttat	tattacaccc	atattacana		120
tntagaanac	tgaggctcan	cntgggtnc	ttgccatgan	cacacannna	gangatanga		180
gaggctggct	ctgcctccta	tgcenctcct	gatccactct	ccaaaccctc	ctccagtccc		240
ctgctccaag	ccatcagtta	ggatgattct	tataagccgg	gggtgtgaca	tgccaaagggt		300
gtctctaccc	cacatactcc	ctctggaanc	aggacaagggt	ttgcgtgagg	tggaacctggg		360
ttctttctgg	accagggact	ttgcctccaa	gctcatttcc	tcctctgtaa	aacaggaatc		420
caaccaacgt	cagcctgaat	gggctgtggc	tc				452

<210> 300
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 300							
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cccattatca	tcattcttgc	ttcccacatc	acttcttgac	acctctgcct	catcctccag		120
atcgcttcag	gagttcttct	tcattcatcat	cttcatggtc	ttccagtgcc	agatcattac		180
cagagtcact	gtgttcatcc	tacaaaatca	gcattcatatc	caaatttaagc	agaataaaat		240
gcgtcctcaa	tgaaaaaagg	atttataaac	atctgcccac	atacctcatt	ctaggaaatt		300
gtttctgata	agatgccaaa	cttagaattc	tcaagaactg	aggggaaaaa	aacacttgag		360
ggcagcaata	catggagctc	aantatgaat	acctttggtc	ccttctacct	cccctnatcc		420
ttttcaaact	catt						434

<210> 301
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 301							
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caccaatgcc	gtttccccc	tcattctggaa	acctgggtgg	ncctgcccac	acgcctgtat		120
gccaatccca	cctggctgct	tgggcagcca	ccatgccac	atcttccact	caagcctttc		180
anatctgctt	tgggcacctg	aagacagaga	gaatcatctt	tcaagagtca	gaaactttgc		240
acgtgccatt	ccctctgctt	agaatgcttt	tccctttctc	ccaattggct	tatcatcagc		300
ctgggaaaaat	atttattttc	gtccttaaaa	tctcagatat	cactttctcca	ggagctttcc		360
cagatgcctc	acttgattcc	agaaggagct	atcgccactt	ttgcctggcg	agtaccgttt		420
tcaccgttac	acttatacgc	tatggcaatt	tattgg				456

<210> 302
 <211> 187
 <212> DNA

<213> Homo sapiens

<400> 302

tgactatatg	acgtgtgatg	gcccagact	gagtcagaa	gcagatgcaa	gaatctagct	60
gactttcagg	aaattagacc	ttaaagcgac	ttgcaaaaat	gaaaaacgaa	gcctcttcca	120
aattttttgt	tttggaaaat	tagttatfff	tcataaaaaa	cttacattaa	agtattttatg	180
tcaaggt						187

<210> 303

<211> 449

<212> DNA

<213> Homo sapiens

<400> 303

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gtcattcaag	ctccaggaac	gtcaaggcct	caacagtttg	gacataatff	taagcaacac	120
atataagacc	cacaggtctc	cactgatatg	actggggatc	tcatagaagaa	actactcgac	180
aaagacagat	actggaggga	tagaagagtc	tatgaagtac	agaaaagagg	aaagatctgc	240
aaacaattcg	gtgtcttctt	ttaacttgaa	actcattcta	cccactgcta	cagctaggta	300
ctgtgctctt	gctcagattg	ctggagggtt	ttgttgngat	gatctccttc	aatacatcaa	360
tactataagt	tctataanaa	tcattctcaga	gcttgtttan	aactcatttt	ttttcttttt	420
ctgggntatg	cccttataat	attcattta				449

<210> 304

<211> 309

<212> DNA

<213> Homo sapiens

<400> 304

gtggggtctt	tcaccggcca	tgctccctggc	tgactgtttt	cctgctgac	ctgaccagcg	60
tccccggcag	ccatggcctg	cattcgtggt	ggctccctcct	cctgcagccc	cgaggaggca	120
gggctgtctg	tggatcccag	atcggttgtc	ggaaggcccg	gaagaggaga	gctgccctcc	180
accaccactg	tctctctctc	ctggacaaca	gagtcagaac	actgctgaga	tggggtgaag	240
cataattggt	gcactgagac	tcaaaactac	aggcaagaag	gtttgaaaat	acagaaacat	300
ttcacgaat						309

<210> 305

<211> 174

<212> DNA

<213> Homo sapiens

<400> 305

gatgatgctg	cccttaatgc	tcagctgatt	acagactaaa	cacaaaagtt	cccagaggaa	60
aatggtggac	ttgggagctg	ctgcctcagg	aggatcttga	gtgttagtgg	ttcctcccta	120
tcagatgtac	ctaattgcca	ggatttaata	aaggatcatt	ccattccac	cacc	174

<210> 306

<211> 464

<212> DNA

<213> Homo sapiens

<400> 306

gagccccctt	cctggacaca	ctcgtgtctt	tcccagggaa	tgggaagaaa	caaaaggatg	60
atgacatgac	acctaataag	tctggatctg	gaagtaagtt	tgatctacgg	ttcattaggc	120
tggagcagaa	aaaaaagaaa	gggtccggta	tgctcgctg	tgtgccaggt	atggtgttac	180
gccactcatg	tgccttatat	tccctacaac	ccctcaccoc	aattttatcac	ttcaaaaatg	240
ataaaaagctg	agacttggag	aaactagtaa	ctaaccacaaa	gtcacccaag	aaggagggtgg	300
caagctaaga	tcaagcccca	ctttggtggg	agctaagagt	agcccttggg	agagtcattg	360
ggttggctaa	ttcttgccct	tggaaacctg	ttctatctcc	attcagttcc	tttctttcct	420
gtcagttgga	ctgtaaactc	taagatcacg	aaatttccct	ttat		464

<210> 307

<211> 481

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<212> DNA
<213> Homo sapiens

<400> 307
agcttttgcta gccacgtgtg gttccttagac catcagcatc aacattacct ggaaaggggcc 60
tcttacagat gcagaatctc tgccccaacc cagacctatg gagttaaaac ctacgggatt 120
tctagatgtg cgggagtga gtagctggtg gctatcagac ctcaagggtct ccaacaggac 180
aagatcaaga gggattccac tcccacagac cactcactca ccctagggaag actgtgaaat 240
gcctgtcctg gtgcttagtt tgaattgttg aaagaccatc ttacggcag aaatgctttg 300
tcatttcaact tgataagggc cttgggtttc aagccagttt actcttttct gtgagcattg 360
aaagccccct ttttnatttg ctccgaggca ggattttgac ttcaaagcca aaataagaat 420
ttaggaagaa aagaaagggg gggaggaaaa agggaagttt ggtccaggaa aatgaaaatg 480
c 481

<210> 308
<211> 177
<212> DNA
<213> Homo sapiens

<400> 308
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aaaaaatttc aaaattacaa atgcaaaatt aggtacaaaa gggaatattt acaatgagaa 120
atcaccacaa atggcaagat ttaaacagct gacaaattaa acagcgcaaa atccagg 177

<210> 309
<211> 366
<212> DNA
<213> Homo sapiens

<400> 309
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gccagggtca gtagcagcca gaactagcct accaacgaac ctgctgatca tgtgcataag 120
ccaccttgaa cgctgatcct cctgcctggt ggagccatcc cagctgatgc cacatgaagc 180
agacacaagc tgtccctact aagctctgct caagtggat attcatgagt gaaataaatg 240
actgttacta agtaattaat tttcgggtgg ctgttatgta gcagtagata attggaacaa 300
agcttattga cataatacat ctatatcaca tcctccaatc cattttttta agtaataaaa 360
gtggtg 366

<210> 310
<211> 292
<212> DNA
<213> Homo sapiens

<400> 310
gacccaaatg tgaataatgc caacagcttg ctgtcagccc tgaagtttcc tcagatgtct 60
cataaaactt ggaatcactt cacacgtttc tgaaatgtga ccacctctca ggaggagtgtg 120
acaacactga gtaaccggaa gggaggaaca cttatcccac tgaaactggg ataaagggtg 180
ccatgaatgc aagaggtgcc taaatctctt ggcattggga cttaatgggg ccttatocct 240
cctgctatat ggtagcaaaa taagaaaata aaaaccaaag taatatgcgt tc 292

<210> 311
<211> 195
<212> DNA
<213> Homo sapiens

<400> 311
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gtaaggacat catctgtccc tggactctta agcggaagat catgcaaata gtggactgaa 120
gtcatcccag ccttcaaaaag agccaccgtg ggggggaaat aacagaaagg gataaaaagc 180
tgtctttcgt aacct 195

<210> 312
<211> 475

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<212> DNA
<213> Homo sapiens

<400> 312
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gcttctgggtg gctgtgacat tccttggcctt aagctgagat ggagtgact gagagtgact 120
gcagaaagt tccagaaggac acatggggaat catttaacca ggccaataaa atcagctatt 180
tatacacttc ccccggaaga catagccctt gcttcactgt ctgaaggaga gaaaatgcaa 240
aagtataaa ggcatgaaaa agtcatattc ctgagctaca agagagaaac tgaggacagt 300
ggagatgaga ataaaatccc taaagcttaa aggatgctgg atctggattc tactggatgg 360
nggngcttna aaagnggact gncctatcct tttcacatat gttagaggtc acacacaggg 420
agcccacaga ccccgagcatg ccaataaacg tgtttcttgt gaccataat aatg 475

<210> 313
<211> 425
<212> DNA
<213> Homo sapiens

<400> 313
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ttaaatgata gacaaaaagt agagtggcac aagtcaaact caaaaaatag taacaacaaa 120
atcaatttca aaataagcaa cagcaataaa tgttacctac tattttacga atgaaaatac 180
tgagaccaat aaaggcatta tagtatacat agccttggaa tcagaagacc aagaacatac 240
aagagaacat agccttggaa tcagaagacc aagaacaat ttaactctgc cctctagag 300
ctctgagaac ttgggcaagc cttttaccct ctgtgagttt cagtttcctc atttatataa 360
ttggaatnat aattccngat cacctgaatg taatgaaaat taaacatcct tatgtagggtg 420
aaacc 425

<210> 314
<211> 478
<212> DNA
<213> Homo sapiens

<400> 314
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ccaccatgtg gaggagaact agagcactca tgttgaacta ttaccganaa aagtaatcaa 120
cttcttttgt gttaagncac tgaaaggcaa gtgttgattt gttgcagnaa tnggggctcc 180
cttaacacac ctgtcagccg ggccaaactc tatcacagca taaataatct tttccttaaa 240
taaatacagg taaaagaata aagtagacct aaatgcatta atatgaatat aggcctcaaag 300
caaaatgttg ggctataaat gtccagagtg ataatttttt aagttgatgn gtaatttagn 360
nccagtaaat tagaataaaa cctaaatgtc agttcaaagt gaatttttta catgttcatg 420
cccctgtata atcacctccc anaaccaaca tagaaaatac ttcataataa atgttgagg 478

<210> 315
<211> 325
<212> DNA
<213> Homo sapiens

<400> 315
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ggcagaatgg aataacagca aacaacattg gaggaggact tgtctgggag agcagccatt 120
ttaaagaaga gcacattaag tcacaaacag tcgcagctga tctactttgc agcatcgcca 180
tacatgccta actaaatatt gaaatcccg gaaaaactca ctgtgcatca tggtccagaa 240
actagctttg caaacagtct tttcagatgt gtacattttg tgtatttgag gcatataata 300
tatatatatt cctccatgtt cacc 325

<210> 316
<211> 275
<212> DNA
<213> Homo sapiens

<400> 316
acgccatctc caaatacggg cacattgggg gttagtactt caacatatga atctgaagga 60

gagacacaat	tcagtcctta	acacagtgc	ttatggattg	tatctgcac	ttccatctta	120
tcaccaccca	aatccagcac	ctgaattgg	gagtgttgcc	agtgagaggc	caagagccag	180
aagagcctgc	ttctgcttgc	agaggatgca	cagttgtaat	agttcgtttt	catgctgctg	240
ataaagacat	accaggact	gggtaattta	caatc			275

<210> 317
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 317						
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gaaagactcc	tgtctgaagg	atgtgccttt	atcccagaca	ctgacaaaaca	cctttgccaa	120
gagagtccag	aaacgactgc	aaaccccaac	ccaagcaact	ggactctgga	aaacagctca	180
tgaaatctca	gcactctgct	tgtctggtga	gcctcgtagg	gcactcacct	ctattacgga	240
ggcttgatgg	cagcggtttg	gtttgaactc	tgtattactt	atctattgct	gcataagcga	300
attaccccaa	agcttagccc	gcttaaaaaca	acacgcattt	attatattca	ac	352

<210> 318
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 318						
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ggaatggtgg	ntttaccag	gcnttngggg	anaanangtg	ggnaattcna	ccccctngga	120
tgctnacaaa	ccttgccaaa	tcttancatt	ttcccctnat	tgaaaccggn	tgccccctnc	180
cttantaact	gcccttggac	ttacctcacc	atcttgtgtg	gccttaaatn	aagaatttgg	240
ggg						243

<210> 319
 <211> 476
 <212> DNA
 <213> Homo sapiens

<400> 319						
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tgagaaggaa	aagccggcac	acaccgcgga	ctgagctctg	cctgcctcac	cgacttcaaa	120
gatagcaagc	gaccactttt	ctaggggaaa	aaaactaaca	ctcaagttgt	gctgatttac	180
taaacaggac	gctctctatt	tgtgcttcca	tttgctaggg	gatttacatg	tgaaacctcc	240
cccagtgcct	atgggagtta	ttatcctgct	caatccccctc	cgcacagagg	acaggatgac	300
cgcaagtggg	ataggacgct	tgggctatct	aataaaaagaa	ctcttggaat	taacacttct	360
tcanggctca	cagacccatg	tagcctagta	tatttccaca	tttccttgct	atcttgaaat	420
ggttcaagtc	ttgagacatt	tgaagngttt	tcttctaagc	ttaccgaggg	caatgg	476

<210> 320
 <211> 66
 <212> DNA
 <213> Homo sapiens

<400> 320						
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gagttg						66

<210> 321
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 321						
ggtggccccg	cctccctggt	ccatcttctg	agaggagcta	taccattttt	gcaccctgaa	60
cctccaaact	cagaagtctc	tgaggagccc	tgaataggag	aaaatgtggc	tgaaaatgaa	120
gtggaaaatc	agtggtgata	ccaaatcaag	atcacgcctc	gctgggaccc	tgtcacacta	180

aagcttccag agcatagtcg tttttaaaat ctgtaatagt acctgg

226

<210> 322
<211> 465
<212> DNA
<213> Homo sapiens

<400> 322
gaagccaagt gggaagatcc ttgctggttt ctccctctga ggaagaagga aaatgccatg 60
actcccacta tggcctctct tggaaccata ttttgaggta ccctacttcc ttcttgagtg 120
tcagcagagc aactgtggga ctggcatgag atttggatcat ttctaggaga gcgaatgcct 180
tttgccctctt tgatgagaaa actagacgag acattgttta gaaattcttg agctcagact 240
ttngcattat gacaacgtgc attcaaatct gccccagcca cttgcgagct gggacctaaa 300
gccgtgagct tctggttgtt tatctataac aagcggatcc cagtacctac ctcataaggc 360
tgntgngagg gattaaaata aaatgcatct atcagccagc ttgcaggctc gcacttaaca 420
ggggctcang tgcaatacct tgataagttt tgatagtttg ggata 465

<210> 323
<211> 303
<212> DNA
<213> Homo sapiens

<400> 323
cnaacctgnt angntncatc tnatncaant gtggcaaccn ntnccttgnc cannngetgg 60
agctgacact ttctcaactt cacctggatg gacactgaag tccaggatgg gatgctgcta 120
cctgcagctg ccattctccct gccaatTTaa ggatgaagcc aatgcccagg atggcagagc 180
tgagagctgg aaggaagcca ggtcctcgct gacattgttg acacactgca tcagccatct 240
ctcagcctcc cacctctaga tttcctgtga cttgggaaaa taaatttctg tatttgtaaa 300
gct 303

<210> 324
<211> 458
<212> DNA
<213> Homo sapiens

<400> 324
aatcaagaaa acaattcaat aagaatccat tttccttggt aacaggacac aattgaaaac 60
actgggttatt taaccaaagc ttcattctgaa atggcatatt ttacgggata tgacgagact 120
gcttttgagga atttaagtgg accttataaa gttgataaag agccccttag aaagactggc 180
ctagtacctc atntacttgg ttcccttagg agcctaggan cctnaanatn ttngggggacc 240
tcaagaagag agaaattcac tcattttatg cacatntnac nggcatagtc tangggggaa 300
tcntnggntg ggggttccccg ntttnaaagn gtttttaaaa ccaanttnng gggtnntttt 360
taaacatttc ncccnaagnn cacctttaa accctttttg aacnctttt ttttttttgt 420
ntttgcgena aaatccgggn ccnngggaaa aactaaaa 458

<210> 325
<211> 212
<212> DNA
<213> Homo sapiens

<400> 325
gagnnactgc tcaaacaaga acacaaaaat ntntnangat cctacnacag nggggttggn 60
ncagtgcacg ctntgtatac ctatcagaca aaagaaaatg tcaagcaagt anaacagaga 120
cttagctgtg acagctaaaa natTTataaa gtcattgttc ccatcnaacc tatctggact 180
tatcaacagn atgcntccag cagttattcc cc 212

<210> 326
<211> 483
<212> DNA
<213> Homo sapiens

<400> 326
gtgtaggctc tgccctttcca gggataagtg gccacatagt tcgccgtgtt ccccgagtt 60

attccagta	c	atgttttata	c	cttttggat	g	tttgttgat	c	cacggtgatg	g	tgattgctc	120
tcaacaca	a	gtctacttct	c	ctcgcacggt	c	caaggaggga	a	aatagacaga	g	cccagaggt	180
ggccagcc	a	ggttcctcaa	g	gacctgccaa	g	gaagagtgc	g	ggccaccaga	g	gtctttgcag	240
gtataatt	g	ttaaagatct	c	caagatgaag	t	tcacccatga	t	tttaaatcat	c	ccacatggag	300
ctgccttca	a	aggcacagct	g	gcaggcgagg	g	gtacatttct	a	aatcccang	a	actagtggcc	360
ttgttagaaa	a	anaanaaccc	g	gggngaccc	c	cngagaaaag	g	gagatgtgaa	g	gatggaggca	420
gagactggag	t	gatacagct	c	caaagccaag	g	gatcaccagc	c	attttcaaga	a	agctaggcaa	480
gaa											483

<210> 327
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 327											
agatgcag	t	ttgccatgt	t	gccccaaact	g	gtctcgaact	c	cctgagctca	a	aagcaatttg	60
ccgccttgg	c	ctcccaagc	t	tggaatgaca	g	gacgtgagcc	a	ctgcacccc	g	ccaacattg	120
gcattctctg	c	tgcccttctc	t	tggaactgagg	a	aacttcactc	a	acaactggg	c	tcacagccc	180
tttttccaca	g	gagattttgt	g	ggaatagcct	t	tttgtctca	t	gcctgcttt	t	catattattt	240
gcttggttga	g	ataaattaa	a	agcagaaaa	t	g					272

<210> 328
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 328											
ntatgaca	a	aaaaccacn	t	ggggcccaa	a	acctggaagc	c	gnncngctat	g	gaggaccct	60
ggaagcang	c	anagaaagg	t	tggaatttt	c	cantgcgatg	a	acaccagcgt	g	ccctgcggaa	120
gnngntgtg	t	ntactnttgc	c	tccttnc	c	acccaattcc	g	gtcccaggag	c	cccagggatg	180
gaggcccaa	a	anacggatnc	c	cacaggagcc	a	agcaccact	c	ccaccccagg	a	agctcagcaa	240
acatccacag	a	agtgaacatt	c	caaagcaaca	t	tagtccagga	g	gccacgttcc	a	agccatgggg	300
cctctgcact	g	ctgtcctct	t	tcacatggcc	t	tgcccttccc	c	ccagaaagag	a	agaagaggcc	360
ctctctgggt	g	tccecatcaa	a	aactccacc	t	ttctctcacc	c	ctcctcccag	c	ctgtatccct	420
tctctgcagc	c	ctaacatgc	a	attccacttt							450

<210> 329
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 329											
ggtgtggg	c	cacacactct	c	ctgaacagca	g	gaacttctgt	c	ctgagagtag	a	aagctgaaga	60
gcagaagag	a	cactatggga	a	atcaggaaa	g	aggaggtgat	c	ctgggcccagc	a	agttgaagca	120
cattgaaac	g	aagaagaagg	c	ctgacttctc	t	aggagctgcc	t	tggaatgctgg	c	ctcctgggg	180
aactggaact	c	cagtttgaa	c	ctgaaattcc	t	ctgtatactt	g	gtcaggaaca	t	ccactggac	240
tgtgggttcc	t	ttggtacaaa	a	aactaagtat	c	ccccatgcct	g	gccacagtgc	c	ctggagcaga	300
acagacactc	a	aatattttaa	t	taacgtatga	t	ctgatttgtgt	a	attaccgcg	g	catcaatag	360
aagacacaca	g	gggggngga	g	ggataaattt	g	gggttaaaaa	a	anaaggctaa	a	atctgntggt	420
gntgcttcac	a	tganaaatga	n	agtcctttcg	g	gtttatggtg	g	gctccccggc	c	aaaacacc	479

<210> 330
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 330											
gaattcatga	c	actgaagct	a	cccaacttc	t	taccatgcct	a	ataacatgat	c	accctagga	60
agtggcagag	t	aacccgagg	g	gaagaagcct	g	ggatacctga	a	atgactatat	g	aaacacagn	120
tgcccttaata	c	ctcgcgatca	c	tcactacgg	a	aactctgtaa	t	taaagtatat	t		171

<210> 331
 <211> 251

<212> DNA
<213> Homo sapiens

<400> 331
atgctatcta tacttatgtt aagcatcttc agagacacca tggatgatct tcattctgaa 60
tcccaggaag aattctggaa agcaatcacc tacctcttga tattttctcc gtcagatatt 120
acctaaagat ctttttggga cctggagaaa agggaaggta gaactgattg ataacttcta 180
tttatataga attaaaagaa tatgaaaagt ttagataaag gagcataaat aaaaaccttc 240
tactggcaaa c 251

<210> 332
<211> 446
<212> DNA
<213> Homo sapiens

<400> 332
gttgtctgcc aacgctaact ggccagctct gacaggaggt gcgtggccca ggaggagcca 60
tcaggccagt tctctgggat actgctgtgt ctccagctct gcagtttgct ctgcgtcact 120
cagcggcaga cggagaggca gacacgagcc ccttgtgagc cctcctcctt accgtcatct 180
cacaatgctc tgaaataagg aggc aaatgg ctgaggtccc ctgagttgaa gatgtgattg 240
agttctatct accagaagca tatgcctcct ggaagcctgg ttctaacacc tctcacaaaa 300
tccttcaagc acttttttct gttccaagggt ttgcttatgg gggaccnnaa ggaaagggt 360
tnanancct aaagatttgc tgagtcatat gagggggccag caaacctttc ctgtaaagggt 420
tcagataata aacattttta gctttg 446

<210> 333
<211> 498
<212> DNA
<213> Homo sapiens

<400> 333
gtgttgatca tgaaacattt tcaacccaaa atagtagagc caaatttgag cattgccaac 60
ctccaccac ctcccttcat cacatggatt tgttccaaac aacttctggc ccttcaagca 120
aggaaacact ccttcaaaaag atgaacactt gccatcacta acattgtgcc acaggctctt 180
aagacaattt caaatggaaa tgcaacgaag ttttgctaata ggtagcatca ctgaaataag 240
tgtagtgtct caaaagactc ctatgtgatg gtgaagaatt aagtgtgtat gtttaggcac 300
aagttttatt tttcaaagaa tatttcatct tgctatttgn cgaatgaaat cttaaggaat 360
aaaaagngnc ttaagttttt ccaaattgca aaaaggaatt accatcttcc cactgactcc 420
atgaatgccca aagtcactga aaactaagct taatgactgt tgaatcaatt tccaaagatg 480
taaaattctg ctttaata 498

<210> 334
<211> 345
<212> DNA
<213> Homo sapiens

<400> 334
gcaaaatata tgggaaaaac aaaacaaaac agtgaaccaa gaactcaagg gagaatcttt 60
tgagctcatt ttctgggtga atgcttcctt ctaccgcag caccagaaca gaggagcttc 120
caggaagtta gagaattgaa aaatagagaa aaagaatgag tcacaagagg atcttatcat 180
ctgactaagt ggggagactgg ataaaagcct tgtaaaatca ttgcagctta tatacatgtg 240
tatgggtatc aagtagcatt ctatttctca aattaagcat ataccgcant tattttgtga 300
gactataaan ttcttctaga aagaaataaa gaacattaaa attct 345

<210> 335
<211> 297
<212> DNA
<213> Homo sapiens

<400> 335
aggacttgct cagaacaagg gaagaagatg actatgcagc tgctcggtaa cagcgtctag 60
tcacactctg agatactgag gtcagcaaga acagaggatg cacactatgt cccatcttgc 120
ctttctgccc agaaagtctc agttactgga aaagcttcag aaatatttac caaaaaatcc 180

atttgaaatc	ctgaaattct	acttctcaga	aaaacagtat	tactcttgtc	tagaaataac	240
attcaggcct	caaagtgcta	tactgtcatt	acttctaaaa	ataaactgag	caaatcc	297

<210> 336
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 336						
tattgtttct	aaagaaacta	tgaagcaatt	caaccagagg	agaacaacta	ctgtgggact	60
gcagatgatc	ttagcctgga	agctgcataa	ccctcctacc	agatcaaatac	attcagcatc	120
catcttaaat	gagaaattta	agtaactaaa	aataataaat	ataaataatt	aaaat	175

<210> 337
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 337						
attcaagaga	gtgccaaagg	aaacaacagg	acagaaggag	acatgaggaa	gagatgggac	60
agacagcact	caaccctgag	cagacgtgag	gggcaaaaga	aaaggcaaca	ttaaggaccc	120
attcaagtct	caagtctcag	cgtcccagag	gatgggtgag	atacagcaaa	aatggagagt	180
gcaaaaggag	aaaggcagtt	gaatgtgaag	ataacggggt	cttcggggcc	tacctactaa	240
gtctggtggg	ataaccctgt	taaatgggaa	gagggaggcc	tttcttggtg	catttttagga	300
ggaaaaaaat	ggctgcctgg	aaagtccata	taccagcagc	aaaaagaaaa	gcnnaatggg	360
attaaaaaat	nttaaaaagg	cttcacnagg	agggttaagt	ntggcgggtg	tgcccatcag	420
agaccagcag	agacaactgg	ctctccggcc	tgagttcgcc	tacatcagaa	ctagcacatc	480
tctctgtcta	atttct					496

<210> 338
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 338						
gtgggtcaaat	gtgtgggagt	aaaatgtgtg	tttgaaatgc	cttcccagga	ctcagtatgg	60
ctcattttcc	tccttgccat	gagctgcatg	tccccatgat	tcggggcagc	ccgcctagggt	120
gcctgttctc	ggctatcaga	agagcacagt	gaagtctctc	tgcccctgag	aagatcgaag	180
actctgctgt	gggtcaagggt	ccttctccag	ccatatgtgt	tgtctaggat	tagacttttc	240
aaacagtggc	caggccttct	gaggtcacat	gtagcagtaa	aagcaagctg	tggccaaaaa	300
aaaaaaggnc	ngnggggncn	attnannttg	gacttaancn	ggnggnactt	ntnnaaaagg	360
gggggactcc	c					371

<210> 339
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 339						
actgaggatc	ttctgaattg	gcggcctcta	catatgcttc	tgctaaggag	catgtattca	60
ctcaacaagc	attttaaacc	cccagcaagg	cacaagctac	aagggttaca	agagacacaa	120
gaagagatga	ggtggctcct	gcttcccaaa	gagtgtgggt	cagggaaagg	aataggcctg	180
gactttctcat	aacctggaac	atcttttctc	gaggccaaag	aggtgatccc	aagtgagagg	240
ccaaatccaa	ggaccctgcc	tgcccgatgg	gtgctcctct	gctgagcagc	caaaggcagt	300
gccacgaggg	ttcatctacc	tccaatagtc	acggagtctc	tccatgtgcc	ntttgggttt	360
nttgcnttgt	tttcccagga	aagccttnc	tgacctttca	gatcaagtca	catccacgta	420
ccatgaacat	tcacaccctg	tacctctctt	ttcacagcac	ttatcccaag	agaaactcc	479

<210> 340
 <211> 481
 <212> DNA
 <213> Homo sapiens

<400> 340
cagagtgtgg gaccaaggac aaattacaga agcacagcag agaaggttgc ccggttcccc 60
gtttgcctat gaagttatgt agtgagcaaa taagaggaca ctggagcaca gcgctgctta 120
gagccgaggc tcagtaaaact tttgttctact gatgaatgaa tgtattaagc tgaccagctc 180
aatttgattc ataaagaaat agccttaggg cttttctgag gaagaacaca acatactttc 240
aatccaactt tttaaaaaat aaaacatgat tacacactcc taaataaata ttttcagaaa 300
gtttgcctat atgtcaaaga tttctaggat ttggaagcca gtatgttcgc aagttgtgag 360
gacatctgng ttattctcaa cacttccttg gcaaaacnan ngngtcctta cctgaaagcc 420
tgaaacaata taaaatgcaa agctgacatc cccctgcctc ggcaactgca ctttcaccca 480
g 481

<210> 341
<211> 306
<212> DNA
<213> Homo sapiens

<400> 341
aaggaaaagat ggaaaagagg agttatcatt tctttctcaa gatcctggcc ccatgagcct 60
cagtgtagcc ctagtctctg ggatcagcac caacaggcag ggaggagagg ctctggcgcc 120
ctgcagacag caccagggttc ttggcatcag gagctggata cagagtcctt gataatccca 180
gccacagaat atttcaaact caccgacatg tcctctaaat atcagatatg aaaaggtctc 240
cactcttgca cctgtcttgc tattatttta cagatgtgtt ctaaaagcta taaagacgga 300
aatcac 306

<210> 342
<211> 471
<212> DNA
<213> Homo sapiens

<400> 342
ataatacaga catgtacccc accacacaca atgtaaaactg caaaagcaaa aaaccgagat 60
gcctcgtcca cagttcaacc ctctgcgaac agagccatcc tggataaaaag ggctgctgtc 120
atgattgcca taaactgagt ggctgaaac aacagagtca gaaatcaagg catctgcagg 180
gccatgtgtg ctccgaaggc tcggaatatg gaccctcctt tgcctcctcc tagactctgg 240
gcaggctgca gatccagaaa gccgaagctg cagcaagctg gaaggcgcgc cgcaggagga 300
gttccttctt caggagactg cagtctttgc tcttacggnc tttgaaaaan atgggnatnaa 360
nccccccacn ctatggaggg taaccgcgtg cattcaaagt ctacagattt aactattaat 420
catatctaaa aaacagcctc acagaaacac cagactggtg tttgaacaaa a 471

<210> 343
<211> 463
<212> DNA
<213> Homo sapiens

<400> 343
catgtctttg cagctcttct caccaagaat tggagtctat tttctcaact cattaaatct 60
gagctggctg tgtgacttgc tttggccaaa aagacttttag caaataagat ataagcacia 120
gcagagggtt gaaaagtgtc ggctcgctgg ggcttactgt attactgtc ttgaaatgct 180
gagatgacca tgtgaatgaa tccaaggaag cctcctggaa gatgagaatg ctgcatagaa 240
gaaaacagag gtctccagct gacagcctgc caaacactag aaatgtgaat gaggccattc 300
tggatcatct tgtcaccagc tgacctccca gctgactatc agtgcattgag caaaccacga 360
aaagatgagc tgagccagtc cagtgtaaaa aaaatggccc agccanccca cagaataatg 420
agctgaataa aanggttgtt ttaagccaaa aaaaaaagg gcc 463

<210> 344
<211> 149
<212> DNA
<213> Homo sapiens

<400> 344
gagtggaaagc agcctgaggc cctcatccaa tgcagatgtc tgtgccgtgc gtcttgtcca 60
gcctgcagaa ccatgagcca aataaacctc ttttctactac ccaaaaaaaaa aaaggncagn 120
ngggccaatt cagnttgagc ttaaccagg 149

<210> 345
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 345
 tatatgaaga aatctggcct cccacagaga cggatttggga aacaagagga ctacacagac 60
 cctctgacag tctcttgggg gacacaatgg cttgccaaagg gatccttgat acacacttgc 120
 agaaccactt gcatagacca tcaccatcat cctggaagggt tttttcaaaa aagaccacta 180
 ctctnacttt cttnaanaat aacattgcct tttcttgatc ttnatggatg gggaaatcatn 240
 antgacntgc tnnnttgaaa taaaggacnt ttgaaaatan aaacntggac ctatgaanat 300
 atnaatcgga tgaagattct gaagngccct gatgntacta tttatggnct gnttaaatat 360
 tccaacttaa tgggaaggcc ctnggggggg gatttggcca cccttgg 407

<210> 346
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 346
 gatgctgtct tctgatgaaa acagaatcan gaatgagtga aacatggaag tttgaaaaga 60
 gtgaacatca acactggaaa ctcaagagtgt tggttaaacag agaaaattaa tagaaaccag 120
 gaaacactta aggtntattt gaagtttggt gtcttgaatt gatgtattaa ttaactctgg 180
 aatcaattta ctgtatttgg tgaaccacgc tttcagtggga gttcttctta attttcgcct 240
 actgttctac ttgttccaaa tgtgtgtatc atgtattttt tcttttagat ttttctacct 300
 aattagcttt gattctgtca tcaggattga ttttggctaa aataaaacac atatatgtct 360
 ttt 363

<210> 347
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 347
 gacttgtgtg gctcagatcc tccattcaag agagctacag acacgggggt gctgggtgagc 60
 aggagccgag accatctggg gtgggaccga ccaagagttt gaggtgtcca gggggtgacn 120
 gtgaagatga cctatcgag aggggtccct ctcattcacg ctctgaagtc tgcacagggg 180
 caggggctac cgtgctccat tcagtttggc ctctgttgta tcagccagag gccagcagaa 240
 ctctatggtc actccccgt gtcacggaca atttggcacc tccaccggca gccaggggt 300
 ctgacctgaat attctcgct gatcgtagga ttgtggggag ggatattctc attgatctct 360
 aaagaaaata ttggtcgctt ttt 383

<210> 348
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 348
 gatgatcatt cttgaaacca gatcccatat caagagaaaag tcaagtaatc atgaagagag 60
 gccacatgaa ggtgttctgg ccagcagtg cagctgaatc tcagttgcaa gccagcatga 120
 ccaccagaca gggaagtga caaaccttca acggaggcaa gccccagcct tcaaaccacc 180
 ccagccgatg catggggcaa ggacgagcca cactggcaa atgtgccaa actgcagggt 240
 caggaggaaa ataaatgatg gtggtgttcc cagtcattaa gttttatggg ggtttttaag 300
 gcaaccaaag acaactaaga acatttactc tggccaataa aaaaatgaat gaaagtgatg 360
 tgctacttcc atgtggaaa ngttcattcg ccagtagtta agacattgga agcaagcttt 420
 tccttcttgg tgcaccaatt angaaaagaa gtgggtgttg gggatgtgcc ctcttcat 479

<210> 349
 <211> 614
 <212> DNA
 <213> Homo sapiens

<400> 349

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gcggaagaga	cggcntttcc	accccgggac	cttaccagaa	aaccgcgaca	ccccagncac	120
aattggcttc	cttcattcaa	gccnagaaaa	agggactccn	acttttcacc	accaggggan	180
gcccccttt	cttggtggct	tgggccaant	tgcaaaaagg	cctngtttca	ttgggcattn	240
ccacaagggg	ngggggggaa	nttgggnccc	ccaacccttc	ctttcttang	cacctttnan	300
aagnggttnc	cttnttgttg	ggcaagnaac	aacccaattg	gcnttaaggg	ttttcntctt	360
ttttncaaaa	cttnccttgt	ttngggtctt	ggggcnnaag	gtggnaccgg	aatcaattct	420
tttccacttt	gccattttaa	ttnaagtnaa	gttcaacccc	ngaaacaatt	tccttaatac	480
cttggggccc	cccccaaatt	tncttttttt	aaaanaaacc	aaagtttggg	cctntcccc	540
ccacttgggg	aaattttatt	tctaaaatat	tngggaacnt	tagaaattaa	aaanttggaa	600
gaaactttgg	cccc					614

<210> 350
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 350						
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ggggttggag	agcccgggat	tctgattaaa	catggaatct	gagaactggc	agaaagcctg	120
gaactgatgg	aagagagggc	tctagggcct	ccatactaaa	tggtgaacta	ggaactataa	180
aagagataat	gtggtgaaga	gcttcagcca	tcaagttatt	ctaaaaatga	agtagggcat	240
tttatatgtg	gagagaaggg	cactgattat	tatctgacta	ttgctaatat	gtcccataga	300
acttatttgg	aataattttt	tactattaat	ttgaacaaca	gcagtggagc	tcttttatatg	360
tataataaag	ctaattttac					380

<210> 351
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 351						
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gccacagagg	gaaagccgcc	ttgagtatgg	agcaagactt	cctcagacag	gtctcatttg	120
tgtcttcctt	tccagcagga	ggaagacagc	acctgcccag	agtagtttta	gagggcactg	180
cactaaagaa	ggagaactgc	aggggaagat	cgtgccctaa	tggtatgaaac	atttcccaaa	240
tggcctggct	atctggagag	atgaggactt	gctcattagt	agaagtttcc	aggcaaagcc	300
tggataagca	tttgctgcag	gggtggggga	aggtgaaggt	tganangana	nctctaagat	360
ttctttgcct	tgg					373

<210> 352
 <211> 405
 <212> DNA
 <213> Homo sapiens

<400> 352						
gctataaaga	cgcttgaat	cctcctccac	gatacccgcc	ccactatttg	ttggcacagc	60
tacgatgctg	cttatggatt	gttttcactc	ctaaagacag	tggcgcaagg	caaggtgacc	120
tggagcgagg	ccatcctgag	tgcccaccca	gcgtcccagg	agcctgttgg	aatttggaag	180
gacatttgcc	tctgtttata	aagactggct	ttttgctgaa	agccagggtc	tcaaaaaattt	240
tgttttatta	atagaagcta	aaccccaaac	atttggtctt	ttttcattcc	atttcccctt	300
tcacaatctt	aactattccc	aagacaatgg	atacctctgc	ctgtatcaag	ggcngattgt	360
caataanaaa	gtcaacagga	aataaacntt	ntttttttca	aaatt		405

<210> 353
 <211> 464
 <212> DNA
 <213> Homo sapiens

<400> 353						
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agggaaaccg	ggaaccactg	angaggagca	gcagaaaact	tcacagcttc	tttgggtggg	120
cagcagactt	cagatttact	ggaagccaag	aaaggggaag	acagcagcag	gagggcttga	180

ccagctagct	aaataagtta	agccatggaa	agaagcagaa	gaaggaagct	caagaaatct	240
cagcaacaaa	cactcatgga	cttttttcta	aaaatggaaa	tttaaaactt	tctcgaccat	300
gacccacaag	aaatacatTT	tacacgttgc	atccaggaca	tagcaatatg	cctgtgagcc	360
actttgtggg	tgaaggggtt	ncatgggtgag	cttgttttaag	ggaacatggc	cccnggggt	420
ntcctttttg	gagattcccc	ctggattttac	tggatcaaag	tctt		464

<210> 354
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 354						
ggaaatgcca	caagactatg	gccgtgcaac	atttccgcag	tgctcctcgc	tacaaagaca	60
ttcccctaag	gctgggtggc	aactcaacac	tcagctcagt	acgtggtcag	ctcgtcctcc	120
ataggagcct	tatgccttgg	tgaggagatc	tctgaagaaa	ttgctgatga	aagtccaaca	180
ggctcttcca	gtttgtctgg	tcggtcacat	ttgctgaaac	ctggaggaat	tgtagtgga	240
agctcaacag	gcctgactca	gtctgactgt	ccattcttct	ggaagctgca	gagaaaagaa	300
acctggaaaac	cctatatgct	gacaaaaagg	gacacaattg	gatatgatgg	ttattttacc	360
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ccttttaaa	ccaataaaa	ccctgc				446

<210> 355
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 355						
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ggatgttctc	agttgaagcc	cacactagaa	gagctattta	aacagcacca	aagtgtggg	120
attacaggtg	tgaaccgctg	tgccctgaccc	agtgtttcta	aaatatctac	aaaaacagtt	180
tggagttagt	cctaggcaat	gctttgtctg	aaatgggatg	tgtgatggac	catttctaagg	240
gagctgaact	ggctgctgtg	aagacatcag	gaacccaagt	gagactgtgg	tacgtaagtc	300
aggaagaagg	cacttgctcg	gttttgaaaa	catgtcctgg	ggatggntag	tgccctncagt	360
tcacaaaaaa	agcaagctgc	cttgttaggg	nanggannca	accanttgaa	aacacctcca	420
ntactgccan	tanaaacagt	tgattt				446

<210> 356
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 356						
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gcccgtggca	gaggggtggaa	gggcaagagg	acaagaaaga	ataataaatc	aaacttacag	120
cctcaagctc	ttttataacc	agcatcaatc	cattcatgag	gatggaacac	tcatgacctt	180
aacacctccc	tttaggctcc	accttccaac	atttgttaaa	ttggggatta	agtttctaac	240
acatgatttt	gggcggggata	cattcagatc	agaccaaag	ggcaaaggga	ttttgtatac	300
acagagaaga	agttgatgtg	aagatggagc	agagagccgt	ttgaagatgc	tagccttgcg	360
actggagtca	tatggctaca	atccaatgga	tgctggtaac	cnccaaaana	tgganggnng	420
ccggacnaaa	attcncncct	ggaacctcca				450

<210> 357
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 357						
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tgctccaagg	gcgccgtgtc	tacggaggcg	acgtgagga	tggttatca	ggttgggtca	120
ctcaccctac	cacgaggacc	tgaccttaaa	ttctcggtgc	atcctaagt	tgaccagag	180
accgctgcg	tcagaagcac	ctagaatgct	gtggaagcac	cttcaatgca	gattcctggg	240
cccaaccctg	gttccactga	atcgggggtca	gctgggtggc	ccaggaattg	gcattttcaa	300
cagcttccaa	ttgtacacca	gaatactcaa	gcttgtgact	ccctgctca	ctgntttctt	360

catcctttct	cacttcctgc	tgagtacata	tgnattttac	tactttttaa	aganactttt	420
accaataaag	gccggcnttg	aaggggaaaa	aaaaaagcca			460

<210> 358
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 358						
gaccgcaatg	ctcctacgat	gacccctgtaa	cagaggtatc	ggacaccaac	cntgggannc	60
ctccttcaaa	ttatgggaca	tcaccaacaa	tcaatcacta	agagaagaaa	taatttagaa	120
gaagaattca	tttttggtta	ctcaaatata	acccaattta	aaggagactg	ttatttctct	180
tctctagtaa	gctacagaca	ggatctgctc	cctttaataa	gatgcttggg	taataacatt	240
tatttacaga	gtaaaatttt	ctctttatct	ccctccacac	taaaatattt	acataaactc	300
aaaccactta	tggtgcctat	tccaaccagt	ttcttgtcag	agtgagtagg	aaaattcttc	360
attaaatgtc	attgcctttg	gggnaaacag	aacataaatt	aaaaaccccg	ctttatttta	419

<210> 359
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 359						
gccaaagagat	gcaaaggatt	aatcatgaac	ccagttgccc	agaggtggaa	aaaaaaaaatc	60
tggtgtggta	gactgaagaa	gcnagaagtt	atatgaacac	caagaggccg	gcaacatgag	120
tgtggcctga	gtctgacgcc	ttcgcccacc	ctcttcacga	tcacctgatc	cgaaagaagt	180
tacgaaaata	gctcanaatc	tgggcctgcc	tggaaagagac	ataaagattc	atttacatgg	240
gaaggtgact	gctctgaata	tccacagacg	acgaatctat	gctaattggt	cagtctccca	300
caaactctggg	atttatataa	ctggctccta	cccttgttcc	ttgccagcag	aaatgcttga	360
attatcttaa	ttccagaatg	naaattattc	ccattctgan	ggcntcattt	ttaagctggc	420
aaaggncatt	tttttnacag	gcctaaaaaa	aaatt			455

<210> 360
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 360						
atgatgtcag	aagtgggggtg	caaagtanag	gcttctgaca	acccccggga	gtactgagtg	60
aacaagcaag	gtatctgcag	aaccacttg	tgccaccga	tctctcagag	tgctgggaga	120
tcatggacaa	cagaatgcag	tgtgagggat	gtcaagtcac	ctgggaacaa	cactttctta	180
agaattcatc	tcaatttctg	cgtttttttg	aaaggctcct	aattgtttgc	tgctctgca	240
agctagacat	ctcttttcagc	aaatggagac	ccagatgggtg	aggcaagaga	aggaatgacc	300
aaattaatga	aaatgttctt	tcagcttggt	attgagcttg	ntattctcct	gaatgcttgc	360
tctgcgactg	ntatgctaac	tgacctgtg	ggtaaaaang	gaaaggaata	tctcntttgg	420
ttaattttaa	aaatantaat	aattgacaaa	aaaaaaaggc	ccccg		465

<210> 361
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 361						
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tcagaaaagct	tacctgagaa	tgaagtcaac	actggagaga	aagagaaaaga	aagagggaga	120
acatatcaga	atctctccac	aatggcaaca	aagatgggtc	ctagcaagtc	caagcctcca	180
ttctctttta	aacttgcaat	ccttgaggac	aaagaaaaac	gatctttttt	tccaatatct	240
atgttacttc	taaaagaagg	nattaaggaa	agcctgnatg	aaatttcatt	catnantcaa	300
gaccatactg	gccttgaata	aaatttataa	gc			332

<210> 362
 <211> 293
 <212> DNA

<213> Homo sapiens

<400> 362

ggagatcggt	tggaaagaca	gtggactgat	ccaagagccc	agtcttgatc	agcccagact	60
gaggggacct	taagagatgg	gaagactgac	atttacaact	tccccaaactg	gccgtgatga	120
tcttaagtac	agccactgag	gaagccaact	taagaatctc	ttcctgaccc	tgctcagaat	180
tctatcatcc	ttcttcctgc	cccaaataaa	attcccactt	ccacaaaaaa	aaaaggccan	240
cgnggccaat	tcagcttggg	cttaaccagg	ntgaacttgt	tcaaaagggg	ggg	293

<210> 363

<211> 466

<212> DNA

<213> Homo sapiens

<400> 363

ttgtgcgtca	ctgcaagact	gcatggtaat	gaagccaagg	caactgtgggc	caaaactctg	60
ctgcctgtga	gaagagaagg	gacagcggct	tggagagaca	gaacggcaaa	accgctgctg	120
ctgctgcttc	tgcttctgct	gctgctgctg	ctgctgctgc	ntttgcagct	gattgagaca	180
ctatgttgag	tctacaggat	tctgtgtttt	ttgaaattag	cataaagtcc	ttgttaaagt	240
cctggagcag	cagctgaagc	caagtaggct	gccaggcag	tcagaagaac	agagcagggtg	300
aagctgcaca	gcatgcagtg	gtgtgtcttc	ttttggggcc	aagcctgatg	caacttacta	360
tttgccaacc	cccggtcac	ttccttctga	gtaaatggcn	ccactatcct	atgagtgatt	420
caagtaaaaa	tgctcttcag	cgccagtcag	caaagtaaat	aatca		466

<210> 364

<211> 283

<212> DNA

<213> Homo sapiens

<400> 364

tcacgaacaa	tctggatttc	atgtcacaa	aggaaacaga	gtcatcactt	caagtactgc	60
accaatcaag	tctgttctgg	taataatgtg	aggcatgcct	caagacctcg	atacatgaaa	120
gcaattactg	cagatgcctg	gctgttggca	ctgttcagct	ttaatgtagc	agtacagaaa	180
gttatgcctt	ccacctgtga	tgactgatcc	tagaacctgc	agacaatgag	tctaagctga	240
atacaacaa	taattatcca	agtaaagagc	ccttgttcaa	ttc		283

<210> 365

<211> 407

<212> DNA

<213> Homo sapiens

<400> 365

aaatgaagat	ggcatatgga	aaggcgattc	ttatactcag	aaggaaaaagt	tcccatggaa	60
gccatggatt	cattcatgac	aaagtgggtg	gcctgtttgt	ttgcttgaga	ttggcaaaaa	120
tccaaaatgt	ctgtgcacac	tgctgggtga	gctatggtaa	aacaattaca	tatttctggt	180
tggtgtgtoc	ttgtgaagtg	aaatttggca	gtaagtaaca	aaattactca	tgcatttccc	240
acggatcagc	atctccactt	gacataaaat	aaatgctaga	gatacacatc	tacagggtatg	300
aactacaagt	tctgtagtat	acaaggatac	aggtaattta	ttctgttgtc	tatgatggca	360
taaacagctt	aaagtgttta	ttaataaggg	gcctgggttt	gttaaag		407

<210> 366

<211> 466

<212> DNA

<213> Homo sapiens

<400> 366

agcatgctgg	acagcctgga	gctggagccc	acctacaacc	ccttgcatgt	tcaaagccac	60
ctgtactcac	acctgagcag	catctatgcc	aagcctcagg	ggcggctcca	cccacactgg	120
gagagccgag	ctccgagaaa	gcatccctgc	aagactgggc	agttgcagac	caaccgagct	180
cgagctactg	tgccccccct	gcctatgact	cctgtcccag	gcagagcctc	caagatgccca	240
gcagccagca	aatcttcttc	agatgccttc	ttcctgcctt	cagagtggga	gaaggatccc	300
tcaaggccct	aagtcaccag	caccagagcc	cagctgcccc	gcttaaccat	attcatgctc	360
aggttcacat	aatgggctat	ttgnggtcaa	gacttgcttt	tttttcccn	ggganccttt	420

tntgngggag ggnttnattg ggaaaaanaaa naggctttcc ttgtcc

466

<210> 367
<211> 475
<212> DNA
<213> Homo sapiens

<400> 367
ccattcccaa atgcgttacg taggtggaag ctgggtgagt gtcaggaaac taaactctgc 60
aaaataagat gacaccctct tggaagattc ggaaaagtgt atcagacttc aagagccagc 120
tcagctacta cttcaagcta acctttcttg agacctcccc ttacactgct ttcactctgtg 180
ctgcccgttg acttaactga atcacctagt ggactgaatc tggccaaact ccagggccac 240
ctatcatgag cagccttggt tgctggcaat ttgcagagtt gcaaggggta aaggactggc 300
tttgactatt cagtctttca gttcatcaca tcttgacctg atgactgcag tggccactaa 360
gctggtcaca gagtgaactt tcttaaatgc aagtgtnaag gatngnnaaa ccctcaaggg 420
gctttnantt tttccaaggg ccctgtncct tggaggggca taccattgaa gggta 475

<210> 368
<211> 466
<212> DNA
<213> Homo sapiens

<400> 368
ggctgggacg atgaaatgtg atgggctggg aaactcaagc cngccccag gtgggaatca 60
ataaagggga ncgggtgggc tttggcttat tggnttggcc caagcctggg tcttcaaaac 120
ctgggccctg gaaatcaaata ggctttccca ccctcaagct tggcccagaa gggaaacccg 180
ggggaattac cagggccctt gaanccact ggcaggccca gccaggtnt tgggttaattt 240
tttaaatggt aaaaattctt taantaaaaa caaacctcaa ggaagctct ctttgtcncn 300
ttttaaaan cccattttta aactttcttg cttaaatccg ggaagnngta atatttcaag 360
nggcaaacct ttggaattct tgtggcctcn cttggggaat gccaatccc ttcaaagcct 420
tgggcnccca aaaataaaag gtcttcccgc ttgattattt aaaacc 466

<210> 369
<211> 475
<212> DNA
<213> Homo sapiens

<400> 369
aagccaaaga ttttgcagaa tcaaggatgg atggagtatc aaaataagga acggaaaaaa 60
ctgaagatat actaaggatt aaggcccagg ttcacttagt gtccccaggt gccaggcatt 120
gtgctgtgac tgtgatgtga aaaaagaggc caggacaact gggctctcatt cagtcagact 180
ggagtgcagt ggtgtgatca cagctcatgc agccttgacc ttccagactc aaacaatcct 240
ttcatgtagc tgggaccaca ggtgcatgcc accatgatca gtttattttt aaattttttg 300
tagtgagcca ttgagtccag cataatcctt ctaatttagt tccttatctg aaaagcgagg 360
acattgtgac aatgatctca gaacactgtt gngaaaaanta aantctnaan ataaagggtg 420
ggggcccaaa aggcctttaat tggaagttgg cttaanctat aaaaaaaaaa gggta 475

<210> 370
<211> 387
<212> DNA
<213> Homo sapiens

<400> 370
ccctgaagga ggtgctccag cggcctgctc cgtcctgtcg gaggttccct gaaggcctgt 60
gttctcacct gcccttagtg gaaaccttct attcatctga tctattttct tgtgggtgtc 120
agggccaca tgtctccatc tccctttcca gctccaagat atctgttatg ggctgcattg 180
tatctccaca aaattcatat gttgaagctg atatgatatt gacctgtgtt cctgcccaca 240
tcccatgtca aacgccatgt gatgtgtgct ttccttttgc cttctgcatg attgaaagt 300
tcctgaggcc tcccagaac caagaagatg ccgcatgctt cctgacagtc ttcaaaacga 360
tgtgtcaatt aaatctcttc tctttac 387

<210> 371
<211> 462

<212> DNA
<213> Homo sapiens

<400> 371
gctggagtgc cgnnggcacga tcttaactta ntngnaccent tngcntccng ggttnaacca 60
nttttctgt ctcagcttcc ccagtagctg gggattacag cgccctctgg taggcattgc 120
agagagaaga atgcaaatta aataagaaaa gccctctgcc cttcaggagc ttttggtgaa 180
gatctctttt ttaaaaagct gcaagactgc tgcccgaagt gggacacaca acctaaataa 240
gggcgagaac cggcaaggac ggcccagcca cgtggaaccg cctcgcaact ttggcgagca 300
acttgagatc ttctagagac ccaggagtat gttgcttcta cctcagactg gggagagggg 360
agcttcccca aaccattggn gggagatgaa natntcaacc anccgaattc ctgttcacga 420
ccaacctgtt gtgagctctt ctgggggatc aacaatggct ga 462

<210> 372
<211> 263
<212> DNA
<213> Homo sapiens

<400> 372
ttttctntat gaaaactact nntcacantc nmantccttt nangttaaaa antnaaaggg 60
naggccagnc ccgggggttc acccntgtan tcccagcact ttggaaggcc aaagcagggtg 120
gatcactgga ggctactttt tgttccttca atgcctattc attcgtctcc tctactcccc 180
gcttccccctt ccttcataca ccaactcaga gttcgaggca cctgcccatt tccctccaaa 240
taaaactgta aagaggttac aat 263

<210> 373
<211> 230
<212> DNA
<213> Homo sapiens

<400> 373
gaagtcaagt tgattacttg gcatcagccc ttcatcacag atactactga aataaaaaaac 60
caagggaatg tgaaaaaaac ggaaggacac tgaagcccgt ggggaaataa tgaagtataa 120
gtgcttcaga gaggagcaag aaatggaata atatttcttc tgtgaggacc tcagtaataa 180
caacccatga gtgatgggac ttattgcaaa tggcaagagt gctgttgagg 230

<210> 374
<211> 338
<212> DNA
<213> Homo sapiens

<400> 374
ncatngtnng ggagttgntg naaccactgn ctgactcttc atancaccnc gcttttncct 60
tggtcctcna cactgggtgg ggagccctac nttccatgaa gncttgcaa acnggggtgga 120
tcggnnctcg cntatcacag ccatacaatg actcttcagg aggaaatacc agcctagacc 180
tgctcagggc ttaccaaactn gtgacnatag gtgaggtgna gccagactag actnacacca 240
nttcggnatg atctgacgga anggccggca gaccctatat cctcagatgt gtccccatcc 300
acctggcaca tgtctggaac ttcncattac agaggggg 338

<210> 375
<211> 412
<212> DNA
<213> Homo sapiens

<400> 375
caacctcgaa aatgtccaac tgcaaagacc catgtctaca aattgctgtc agccagagga 60
atggctgtaa cttccttggt gccgaggact ccctgctcag ttctacttta cagtatctga 120
gtcacttaac taaatgcaat cggcccagct gcaggacca ctgctcgggc cactataaga 180
accagccctt gagcttccgg acaggaaaca gcatctgcat ttccagactg tagcagctca 240
tcatgccagg ctccacaggc aagaatcaag cagatggaag ctacagagga aacaaacagg 300
gttccctgaa atcagcagct ggggagaatt tatcttaciaa ggggtggaatt cttgattctt 360
tcattacatg tcctcttgca gcagcagcaa aagtaataaa aaataagagc cc 412

<210> 376
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 376
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 agaagactct ctcaagaaca actgtcttgg attcccacag ctttcccctt tctgtggtca 120
 ccactcagga ctccctaccc tgccccacaa gcctgcagat tctgagatga cctggaagga 180
 acggaacagg aaggcgtgag ctttggcacc agtttaacgt agaactgtac gggccaaaca 240
 cagggccttt gattatagaa aaaaataggc ccattgtctt ggtgggtgga accaaagcat 300
 agcagcatct aagaaaccag tttctttgtg tccagtgatg agggcttagc cctaaaatat 360
 tanggtggggg agggaggagg ggtgaaanng naaacatact ttaataaaat agatta 416

<210> 377
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 377
 tcaacagtca taactttttg aggacacatg tttattgctg ctgctggggg cagctgctct 60
 tgtacccact ttcaaaggg ctgtggaaga gacaaagctc atctggctgc tggggcagtg 120
 gcatcctcat gcaagctggg ctactgggtg ctgcccctgt gacctgcttc tgaatggcca 180
 ggcaggaaaa gtctccact gtgttgcat taaagaaaag aaaaagatga attaatgtaa 240
 aagctctgca aac 253

<210> 378
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 378
 gctgaaatga accaacaatca gcagaggccg cggcagagtg agagagctgc ccatgctggg 60
 agaagccctg gtctttgtct ccacaaatgc tgaaactgac agtgtttctc ccagagtcca 120
 agtctccatt agccaagcca agagcagagg aaatgttctc cactggagga aagaagaact 180
 gtcgacacca gaaaatttcc tgctggaatt ctgcccaga atagctggcc gtcctagggg 240
 ggtccatcat tacggaactt tgctgtttgt aaatttaata aacgactcac atctgcttat 300
 aat 303

<210> 379
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 379
 gtgtggagca gagaaaaggc tatacccact gatgaacagg gatccacacc tggggaagaa 60
 gcaagtatga ctttctctcc tgtggcttta cacaacctcc ttgaaattcc aagagcaacc 120
 ctcccagcta aagtcttctc agatgtgaca cgatctgcac aagcagaggc ggcacagggt 180
 ttggcttcca gttgggaaat gaagctccaa gggcagccct actatggcgg gctgtgtgac 240
 ctgggccaag ccccttgaca tctccagact cggcttccac atctgccacc accaggacac 300
 tggattgaat gttgggtacg ttgtaaggca agggagacac agaagtccta aaggcaataa 360
 agcttttccc cactgcccct cc 382

<210> 380
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 380
 agactgggtc tcaactacatt ggccaggccg gatttgaatt cctgggctca gcctcccag 60
 tagctgggac tacaagcatg taccaccatg cccagttttc tgcagcagtt ttataaacc 120
 aaattttcca aattagaaag actgacaaa gaagcacttt tatacgagga ataacttacg 180
 tatggagaat ctcaacttgg accagtcaag accaactcca gcgatgaagc cagaatgtaa 240

tatatctcaa	aaggctaaag	aagtccat	tttccagatgt	aaattataat	taaaaaatag	300
tgagccaaac	tctaataatcc	caatgtgata	atcttttcaaa	taaaaaatatg	ggctgtagtt	360
cagg						364

<210> 381
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 381						
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aaggagtccc	aaagctcgcc	atgactcaac	aggaagctct	ttgtgtcttc	ctttctacac	120
catgtctgac	aaagaagctg	ttttaagtct	atgggctct	gtctcttgcg	tgaattctga	180
agtcagtga	gcaacaatga	tgtcattgct	tctgaagacc	actgttggct	gagataatga	240
agatctcttc	acccaaaaca	ttgccatttc	tgcagcatatc	atttctacc	ctttcaaata	300
caaaagtatt	ctaccgat					318

<210> 382
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 382						
ccagcagaca	tcaaggactt	ctgaggagcc	tggtaccttg	cataggcact	atggaccctg	60
ttttgcttaa	cccacccaac	agccaatttt	agcagacatc	ctagttttgc	aggtgagaag	120
agctgaggta	cgaagaagtt	ttgttaattt	ttccagttca	cgtaacaagt	aaatgggaaa	180
ccaggatgaa	aatcaagggt	tatctgtcgt	cagactgtta	ctcataatca	ccattcggag	240
agttcanatg	tgggacaaga	ttctaactcc	nnccttctcc	caaagtgtta	atntgccagg	300
tgccctanag	ctacatatg	tcttatttgg	gtgatnnact	gannctgnct	gaatnttana	360
agccttgat	cttntgnant	nncaaanaca	naagagnccg	nggggnntat	ttaaattnga	420
antnaaccgg	cctgannngc	cnaaaanggn	ggggcttccc	agg		463

<210> 383
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 383						
gtggggctct	tcagttagga	cactcaagca	gctctgtgga	gaggaaccat	cttgccagct	60
ccaacatgcc	agccatgtga	acaagcccag	gtggcaaatc	acccagcctc	agtcagactt	120
tcagatgacc	acagcccag	ttgatatctg	actgtaacca	catgaaacac	caaactctgg	180
actcacagaa	atcatgagat	aataaacaat	gattgttttg			220

<210> 384
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 384						
gcaaagaaac	aaagaggaag	gtgtggatgc	tcaccagaa	gtcttgtctc	ctcgcagtc	60
cttagaagct	caatcctcag	gagacagtgc	actgggggtt	gccaagggga	cctgaaatac	120
cggtttgcca	caatcctgac	caaactggct	cccagggtctg	agaagggaga	aggtgtcagt	180
ccattcaaaa	cccacgtgg	ctgattttga	agtggaaaaa	gaaaaaaaga	agcaaagaaa	240
agcattgctc	agcaatgggc	aggaagaaga	gttaagaggc	tgagctcttc	ggcaagaaa	300
gccatagctc	tttcaacttg	gacagagcca	ggaccacagg	ctggttgtgt	caaaaactgg	360
gtgttcttgc	ttagtgcata	aggtttggtg	gttttctctc	ctcttctctt	gagccctggc	420
acttggggac	cctg					434

<210> 385
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 385
atttgtaatg ccagcagaac agctgacccc aaacagcttg aagaccccca caacagaact 60
gaatcagcat gaaaatgcag tttctccacc tctctgttcc atgacttcac cctgcactct 120
tccaccaatc aatgggtctcc acactttggt cgacacccaa acgcttaaga acccaaccct 180
agccccaat tccttgggga gacagatttg aggagtcttc ttacctcttc atttggcagc 240
cttaaaatta aaactcttcc tttgcttc 268

<210> 386
<211> 542
<212> DNA
<213> Homo sapiens

<400> 386
gtgacatggc ttacaaggct acttgtaatc aacttctcat ggctcatccc catttgtgcc 60
ctgaactcca aacgtactga gttacctgca gttcctgtaa tccagcatga ctttgtcctc 120
caagcctttg ctgtcccccac tcatccttca gttcctagct caggaatcat ctccatcaag 180
gtttccctga cttctcccat ttcccaagtg aggcgttcag agagtcctgt gcttaccttt 240
ggggtagcac ttacatcctg ctccctaact gtctgtagaa tcatctgtct tcgctgtctt 300
tgagcacctt gagggcaggg actgcagctg ttatctgggt acatacaaca ccaaataaca 360
atgcctaagg catgccagat attcaataaa tgtctgtgta agaagcaa atgttaaacat 420
ttccttcccc agcatgcctt ctctgactat cccacctcc ttccagaagt actcacctaa 480
tccatgcgga caccatagac caagtgcatt tataaaactg gtttataata ttaaatgggt 540
ag 542

<210> 387
<211> 282
<212> DNA
<213> Homo sapiens

<400> 387
gtatantant tcttatangn nngnnnnnnn nnnnnnnnnn gggatgctcc ttcttgacc 60
cagccacca ctgggaaaag cctaagccac gtggagcanc tacatagaag agggccgggg 120
ccacagctac agccagcagc tctgcccagc cacgtgagag agctacctg atgttccagc 180
ctccagagat ctaagagctt ccagacatct accacccag ccacaccacc tgagccaatg 240
tcccacagag tcatgggaga taataaaagg ctgtgttct ct 282

<210> 388
<211> 263
<212> DNA
<213> Homo sapiens

<400> 388
aggcaagtcc tccgttgccc aagctggcct ccaactcctg gctcaagtga tcctcccacc 60
tcggcttccc caagagatgg gggttacaggc atgagccact gtgcctggcc tcacaagatg 120
ttgttatctt tgttttacac tatcaatgcc catgcgtcct tacttaatta ttaaccactg 180
tattgctgtt cattcttctt gcatctcata tcttccatca gggatcattt ttcttctaca 240
taaaataaat catttgtaat ttc 263

<210> 389
<211> 292
<212> DNA
<213> Homo sapiens

<400> 389
gtaatgcttg tgggtgtcca gacagcagaa tgtgagtggg acatcatatg taccacctct 60
gggcctggac catagaactc acacataatc cttcatgttc ttatgtgacc acacagatga 120
acaaagcaag ccaagtgtgg aaacgtgtta aagatgacgg aaccacaaga tggaacaagc 180
ctggatccct gaatccctcc ttggaggatt agtgcaccaca aattgtaaac agccaccag 240
atctcagcga gcaagaaata aattatacct gaatgtttta aaaaaaaaag gc 292

<210> 390
<211> 244
<212> DNA

<213> Homo sapiens

<400> 390

gattgtctcc	aatttacctg	gaccacagcc	agcaccgtat	cctcaggcac	cccatgggac	60
agtacataca	gaagaacagc	atcacaccac	atcctatcac	caaggccagg	attctgtgcc	120
ttcgcccccc	tccccacctc	cttgaaacgg	gggaagtagg	gggaagagtc	aattcttctt	180
ggagcacatg	agatggtagc	ttgctgtgtt	gtcctgaaag	aaaacaaagt	ttgtaaatca	240
ctgt						244

<210> 391

<211> 436

<212> DNA

<213> Homo sapiens

<400> 391

ctgaggaata	tatgattggt	ttcttggaac	aatttcacag	ctggcatgga	actgaaaccc	60
tgtactcag	gggaaattag	gacagctct	tgtccagttc	aagctgactc	cactgagcct	120
ccaatggcct	gtatgaatgc	ccaatgagtg	cccttttgac	atcagaaggc	caaaaaactcc	180
accctcagat	tgtgccaacg	acaccatctt	gcgaacgtgg	atcctatgaa	aagccatgaa	240
gcttaactgc	actcgcacag	atcagcaatt	acctcacttt	tccttaccac	caattaactt	300
tttccatgca	ttggtgcct	tgttcttta	ttccacaaaa	atccttatgg	ccccactttc	360
aaggagggag	aaatttgagg	gnggttatcc	cacctectca	cttggtgcc	tcatgaataa	420
aatcttttct	cctgc					436

<210> 392

<211> 178

<212> DNA

<213> Homo sapiens

<400> 392

aggctgttgt	gatatcctgc	atggacaagg	aatgatgtt	catctaatac	accacttgg	60
gaacactttg	atgcattggc	tatgattgtc	tttctgtttt	ccctaccctc	atctctagcc	120
ctgtcccagt	atgagaacat	ggaaactcat	tttggaatat	gtgaaatgag	tgatcccc	178

<210> 393

<211> 263

<212> DNA

<213> Homo sapiens

<400> 393

attgatcgca	gagttgaaca	acagagaatg	tgtgcacagt	gccaggcaca	ggtgtggtca	60
agattcacct	gggagaggaa	gtgggcaggg	gcagaggagt	gtgcccacct	gagctgaaag	120
gctgcatggc	aggtgaccat	tatcaccagt	gtcgccagcc	aggtcacctc	tctgaatttt	180
gtggttgcaa	cctccatgat	tccctagagc	tgtttttacc	cagaactaat	gaaaaattct	240
gcacattaaa	ttcatgctat	tag				263

<210> 394

<211> 267

<212> DNA

<213> Homo sapiens

<400> 394

ggccccaac	agtgtcatag	gcctgatgga	gcagcggaac	ctgcctgagg	gtaaagctga	60
agttcctcag	aaaccagacg	gccttacagc	ctcttcactg	ctctttgaga	tggagagaaa	120
gaaatgcaga	tgagtgtttt	ctgtacaaa	tctcatctct	ccaagctgaa	gttgccaagg	180
aacatgccat	cactgtaact	gctaaaaaca	caacgtataa	tgaaatgcat	cttctacaaa	240
tgaatctgtg	aatacagaat	agcctac				267

<210> 395

<211> 180

<212> DNA

<213> Homo sapiens

<400> 395						
gcacacatag	ttccttttgg	cgtcttatct	tctgaagctg	cctcaaggcc	aagcaaagaa	60
agttgttaaa	aagttaagtt	acttttcaca	gcctgcaaac	ccttcaaagg	caagaactca	120
aatagaaact	tggaaaggca	gataagccag	aaaagtgtac	taataaacgc	acttaatatg	180

<210> 396
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 396						
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tatgtcataa	aagattagat	caacctgtaa	ccagagccta	ttaagtgatc	tccagcaact	120
gtctccgagt	tggaaagtgc	agccaaagaa	tttcagtgat	tgcgttttgt	gtacttacac	180
ctgtgggacc	agcactctcc	atttaatgag	ccagctgctt	ttctgattgc	ttccccggat	240
ggccaagtca	ctgcagaagt	ttcttgaaag	ctcaaagtgt	gccttttcct	aaactaccca	300
tggccccacc	ccacctcatc	ctgtgcctat	aaagaccca	gactcaatca	gcagagagga	360
gaagcagctg	aatgttggag	agaagggact	tgacttcaga	gggacagctt	gatggagtaa	420
ccggagaa						428

<210> 397
 <211> 285
 <212> DNA
 <213> Homo sapiens

<400> 397						
aaactctnat	ctcttnccac	tgncntgtgt	attcaagagt	ttgtttctat	ggnggagcta	60
atgagtctca	tccttgcagc	taatcaaagt	tacnanagca	tcaacagaa	taagatgggt	120
ancgagggtga	ggccttgaaa	tcaacatctc	cgcttccttg	cataaacctt	tcattgagac	180
tcctcttcca	tttgggcaac	ttgatgtggt	tcaagagcat	ggagaattga	tctcttaaga	240
ctcataaaat	atttgcttct	tcaaaaagaa	taaaggaact	gaaac		285

<210> 398
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 398						
gttggagatt	acatgtctaa	atcttgttca	cacctatggg	attggacaaa	attttctcat	60
gaaactaaga	gaacaggcca	cagagtgtct	tgcaatctat	gctgctagca	agtgtctttc	120
tcattgctga	tggtatacaa	aaactagcaa	taaaggctta	ttctttcct		169

<210> 399
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 399						
gaggaaaggc	tggaccctgt	atttgtgttg	tgtaccctca	ctctaggagg	tgtcttcaca	60
ctaagagatg	gccactcagc	ttctggcatt	atcactctgc	atctactttg	ccaagcttct	120
tcttttgaaa	cgtcttgtgt	aggcagtagt	taagaatatg	ccaccagaa	gaataccaga	180
tgaataaaact	tacaaatatt	ttgaataaag	ctcaatctaa	caat		224

<210> 400
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 400						
gagctgatac	tctattaatg	gatctagtgc	ctaaatcaaa	agaacagaga	gagtctgtat	60
aagcaaaatt	acctgaanaa	aggtncgaaa	aactgggtccc	aggncntaa	aatgctgngc	120
tnnnaaaang	nnatntnggn	nnaaaaaac	ngnnancccc	ttctcccc	ntccagaaac	180
ctanaattna	cgttctacna	cttcacacaac	ccaattccaa	cttcctttnt	taatattgtgt	240

aangngtata	tgcccatg	gccttctgga	tgtgttcata	aattctgaaa	aactctgaac	300
tcggaagctc	agtgaagccc	agggtttggg	gtaagatatt	acggacctgc	ncttnagcca	360
aaagtgcctn	cgctcactct	actactgnnc	tactgnncct	gacggnnngat	gtcccncaaa	420
gccnccttgc	tgtggggcag	gggggcccc	tgtccttttt	ggggaa		466

<210> 401
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 401						
gtggggtctt	tcaagctcag	gaacaaagcc	ttagtcctta	caggagaaaag	gcaatcctaa	60
ggagagcggc	gcctgaaccc	tttcctacca	tcaagaactc	aagaactcag	cctaataaat	120
gtgggcagaa	ttcacatata	ccagctccag	gcctggccca	taacacttcc	tgcatgatct	180
gggatgcaaa	cgatccagtg	gaggcctccg	aggccctaag	gatgaagcag	ctggagacag	240
aagggcctgg	gtccctgaat	ggctgggagg	aatagagccc	cagtgcagtc	tacttgcacc	300
cccaccttga	ctctgacata	ggcagaaaata	aattttttaca	ctctaaaatc		350

<210> 402
 <211> 133
 <212> DNA
 <213> Homo sapiens

<400> 402						
agatgtatca	aatgggagac	ggccagcagt	gatcaagtct	tgattaatac	tgaaaaacag	60
aagcttgtgc	tcacaatccc	tgccattaca	attctttata	gtatgtaagt	actttaataa	120
acattatgaa	gcg					133

<210> 403
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 403						
gaaggaggat	atccctgcga	tcaccaagcc	tctaccctta	tcttccaaac	cagtcactta	60
ccacagatgt	cttgtcaagc	tgaatatcct	ccagatctga	cttctttcct	ctactggtgc	120
tcaatacaag	atgctttact	ttgtcacaa	aagcatataa	taaactcaaa	gctgcaaggga	180
tatatctgta	agggaaatct	tttcttgatc	tggctggcct	tgaacataat	caccagaaaag	240
actttttgtg	ctcagatatt	atgggtgtaa	atgaggattt	ttttcctcac	ataagaatgt	300
atctagtcca	ttataaaatg	ttattgatgc				330

<210> 404
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 404						
tcctgtgcct	ataaagaccc	cagactcagc	tggcagaaga	gagaagcagc	ttgactggag	60
aaagatgatt	cgacttcagt	gggacagcta	gactttggag	gacagacggc	ttactttcag	120
ggaagagcca	gctagtgaac	accggacttc	agggaagatt	acctgcccac	cctgacccct	180
ctccagctcc	cctctctgct	gagagcaact	tctatcacta	agtaaaatct	tctacctcca	240
cc						242

<210> 405
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 405						
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gtcggcctgg	gacacaggca	ttctggggct	caccaccagg	tggtccacgt	gtcaccacta	120
gacctcccaa	ccaggggagc	ctgccgctgc	cccagcctgg	agacgtgaca	cttctcccag	180
ccaggaggct	ccagtgaaac	cagggtattcc	ccaggctcac	cctgactcct	catcttggtta	240

acgtattttaa tcctcatcct gtacatgaaa taaatatttc atctcatct

289

<210> 406
<211> 436
<212> DNA
<213> Homo sapiens

<400> 406
caaaaggaaa gtcacagcca gagaacgtga ctcccgggtga gcctggagcc agcgtgactg 60
cagagggcca gtccccaggt gatgccggta cgctggagaa ggctgggaa gatgtgcgga 120
gacagacacc tgggacacct aaggaccaag cccagagcca cgctgctgct tccccagctg 180
ccactgggct gcatgaaggc agaacatctc cagtgaagtc aacattcagc tccaacctta 240
agcctccacc atggccaaga aaggcattgc tgctggggga gaaatggaca ttaacactgc 300
ttcaaaaggg tgctgaaaaa cacccttcat ccccgatggc ttagcttggt gaattcacgg 360
gtacttgcat ctgaccctca tgagtctatg tagaaaaacc tggttgagga actgtttgtt 420
gacacccaca tcagct 436

<210> 407
<211> 179
<212> DNA
<213> Homo sapiens

<400> 407
atatgtttgt ttattcgaac aggatgcagt ccagtcctgc tgacttagga tgcagcaacg 60
aggcactatc atggaagtcg aaactgggtc ttcaccacat accaaacctg ctggtgcctt 120
ccttgatctt ggactttctca gcctccanac cngtaaggaa ataaattctt tttttaaat 179

<210> 408
<211> 419
<212> DNA
<213> Homo sapiens

<400> 408
agcttgtttg aagtgcagtgt ggtctttgct caccagaaaa cagttgagga ttgccacttc 60
ctagctgcga tatgccaga ttgttttaag ccagccaaaa acaaacagtc tgtattcact 120
agaatggcag ttatgaaagc cttgaataag ataaaggaag aggatttcct taagcagttt 180
ccttgctctc caaactcacc aaaggctgta tgcgctgttc ttgaaattga atgtgctcat 240
ggtgctggtt ttgtagctgg gagatataat aaatactcca ggaatctacc acaaaactcct 300
tggaataatt atggagaaaag gaagctggaa tcttcagtgg aagaattaat ttcagatcat 360
ctgttggcag tattttaagc agagagtttt aatttttcat cctctggaaa aaaaaaaaag 419

<210> 409
<211> 409
<212> DNA
<213> Homo sapiens

<400> 409
gaacccagtg gctctgagct cagcacgcga tgcacccagg aatgtggcct tacgttggtta 60
ctgtgcccac cctgcgaaaa ctgggaagaa atgaagaagt catcctcttc ctgagacaga 120
gccagcagc cttggggcgg ctgagagaag atgggatcca cgtggcccat agcgcacccc 180
acaggccttt tctgggaaaag cagtcttctc tcggggaagg gagagacacc tgccgaggac 240
ctgccagggg ctctcgcaact gacgctgctg tccttaatgc ctcaacagta caggcaacat 300
gggctacgct gagcccctgc tctcctggaa gtctggtatt ttggtatttt ggcaggtgcc 360
aggcagaggg tgccctaagac cagccccata aagtcacctg gccttcccc 409

<210> 410
<211> 443
<212> DNA
<213> Homo sapiens

<400> 410
gccagcatgc acggcgacac ccgtanctgn cgtctggagc tccagggttg ggggaattgt 60
gttacgcatt gcctgtcact aggtatgagg ctgcctccga tttccacact nagaatcang 120

gctgcagngc	cctttgtgcc	catggctgnt	gatgcacaca	ggattcttnc	aaaacaagag	180
gccctactct	gtgactgtna	gccttgccat	caacactnct	ntttggagna	nagctncctg	240
ntggccctga	ggcaggagnn	ttctgagatc	ttnacntatg	ctgggcttga	tccangcctc	300
antacaggtg	aagaaacgga	ncctgtaaaa	ntgaagtggc	ctgcttaagg	gccngggctg	360
aaagtctgag	gcctggtttn	aanccaaacc	cnggcaaggc	ttttgagaac	tccacnnttg	420
ctgccatctt	acgtccaggg	agg				443

<210> 411
 <211> 96
 <212> DNA
 <213> Homo sapiens

<400> 411						
agattggaga	taacttcaat	tggattatgc	ccctggttcc	ttatcctgac	acttctctgga	60
tgatcccatt	acaaatacat	gtgatgacat	ctggtg			96

<210> 412
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 412						
acaggaaata	tgctgacacg	ataataagat	gtgagggagg	cacatcttaa	acttttgtgt	60
gaagacccaa	tcatcatgct	gacgaatcac	aaaaagatca	gtaaagccca	cccactctca	120
caggtgggtg	cactgtggct	ccatcacatc	agctagacct	ggccatgcag	tcccaacttg	180
ttacctacag	ttccagctgc	caactcaggc	catctcactg	aatgaaatac	ttgcttcaac	240
attgaagatg	tttcctctgg	ccactcagag	gaaacaccct	ataatgaaca	ataaacaaaa	300
ggactc						306

<210> 413
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 413						
cttgccccc	acttctcttc	tcctctcttc	ctatgggctg	gaatattgtg	gatttggant	60
gagccagggt	ccacaatgct	tgatgantac	aatnttttca	ngaanacagc	anaacagcat	120
gaagaaaaga	aacctggatc	tgcaagtgc	taagcagtga	gcaagacccc	accaacactn	180
ggccactnct	tcttggacca	tccttaataa	agttatttc			219

<210> 414
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 414						
atccatggtc	cttctcaaga	cattggcttt	gttctgaagc	agctcccacg	ctcttccaga	60
aatctctatg	cgggactctg	aatgtgggtca	agaagaagat	gtactggatg	cacattccct	120
atcaggagtc	tcttaatatg	ctcccaccca	gttacaacat	attgctgtaa	tcccacacaa	180
cagctgaaac	atcttttctt	catttctttt	aattcctgta	gcatttgatg	tctccaccgt	240
gtaatttaca	tttaattgta	agttgttttg	catcatttaa	tagttgtttc	aagtatgaat	300
gtcttgcttt	cccaagaaag	attaaaataa	gaatccttta	aaaacaagag	cttactggng	360
ccagggccng	acttagactt	agagtaaacc	ncaactactg	gcttcacttc	aagctgacct	420
aaccatcttc	ccagcgaaga	cggncaacct	ggaacta			457

<210> 415
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 415						
gcccgaaaa	atggagggtta	acttcattgt	catctgtcat	ggaactgtgg	ccacaaaaag	60
aggccgtctc	tcaggccagg	gtggetccac	gggtcccagc	acatgcaggg	gctcctcttc	120

tccactcttc	tgcttgctgg	cctggcacag	gtaatggcac	cgaagcctcc	tttcgctatg	180
tttgaacagc	gccacgcttt	cctatatatt	tttatagcag	agcctaaggc	acagcctggc	240
acaagtgcgg	gaaacaagtg	tctctncatg	ccagctccaa	gcggaggctc	aacttttcat	300
tgntgggtgn	caaaaggggc	aaanagcccc	tgggaaaaac	caaattttga	caggga	356

<210> 416
 <211> 99
 <212> DNA
 <213> Homo sapiens

<400> 416						
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ttttaatcgc	cgctcattaa	aagaaacact	gactgggtgc			99

<210> 417
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 417						
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caccacttat	gacacagaag	actctaccaa	aggaaatcaa	actacagaac	agcaacaaaa	120
ctcaaaannn	gnncatttgg	cttttgtggt	attaaaaatat	tttctcagca	gac	173

<210> 418
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 418						
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ccagaaaagtc	cctgtgatac	aactctccag	tgatttcccc	tgagggtcaa	cctagtaggt	180
gcttaaaaaag	tctttgttgt	aaattaataa	attaatccaa	aaccaccaca	ctgctatttc	240
ctcctaccta	tcttctgtgt	cctatcataa	gctgtatcac	ctggggaaaa	aacatttttc	300
agctaaaattt	agaacaggga	gggttttggg	ccataattcc	acttctagta	atagattcta	360
aggaaataat	cagattttaga	taaagatagg	ngtatgataa	tattcaggca	atgggggtttt	420
caatagtgga	aaggtgggat	caacctaatt	tgaaaaatag	cca		463

<210> 419
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 419						
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tacagcagtg	ccattaaagg	agtgggcatg	tggcctattt	ctggccctat	gaagcaaaag	120
gagaggtctg	ctgggagact	tcttgaaact	gctcttcctg	gaaggaggga	aacaaacaaa	180
acaacaacaa	aagaacttta	caagagaaaag	ctttttatcc	cagccccttc	ctactcccat	240
tgaatgcagc	tctgtgagga	cacgatattt	gaagctgcag	tagctgaggt	ggcaaaagat	300
ggcagaacag	aagagcagac	agaatctggg	tcctagatga	cttcattgca	ctgntgcaac	360
tgncctntnc	aganctnttg	gcnnngggna	aaaaatnaaa	nggcntcntt	gnttaanccc	420
ctggganact	anattntggt	ctttgccact	gaatgcatcc	taatgctgga	actg	474

<210> 420
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 420						
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ngagagcccg	atttgttngc	tttgngcccc	tggantggaa	tcccagnggg	aagatngnna	120
tgagagtana	ggntcacgga	tgtnctata	aatcagacgt	tgctgncttt	gatggccnna	180

nctnacttct	gnacaggntc	aatnaaaagn	tgatnantac	tntcaaanat	gtgatctncc	240
tgaagttcaa	natcatgcna	ggagatgggg	tccgtgtcca	tggagaaggn	ggggggggag	300
accacatcac	cttggaactc	cagaaaagga	aggctcgncc	tacacctcaa	tttggnggnt	360
tgtagttctc	cttgaagagg	tccttcacat	cccttgtaag	ttggaaaaac	attccatgct	420
catgggtagg	aagaatcaat	atccgtgaaa	atggccatac	tgcccaaggt	aatcttg	477

<210> 421
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 421						
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cctctggatt	aaaagggatg	tttggatgaa	gcttcaatct	caagaagagg	caagagaaaa	120
ctaaagaaaa	agattattct	acagaaacaa	cacatcactg	gatgcctctc	accatgcaat	180
cctctgtgca	cttgagaaga	agacaagact	ctcctathtt	tagatgggaa	agctgaggca	240
aaacggatgc	acttgggcaa	aatcatttga	taaaaatgga	agctgaacct	cc	292

<210> 422
 <211> 98
 <212> DNA
 <213> Homo sapiens

<400> 422						
agagctgact	ttanagggat	caagaatatc	tagntggatg	gaaggagggt	aaactcaaag	60
gacatgtcat	gaattcctga	accacaataa	atctgtga			98

<210> 423
 <211> 103
 <212> DNA
 <213> Homo sapiens

<400> 423						
aaattccnng	gactaancnt	gancacaact	ccatcggtt	tgaagattct	gtgccttcta	60
nttctgccta	agaataagaa	gaacttaata	caaattggaaa	att		103

<210> 424
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 424						
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aactcccggg	accaagcact	cagcccgaca	cgtcatactt	attaaaaaca	cggagggtcgt	120
gagtggattt	ccacgtattg	ttctagatga	tggagaggcc	tgaagagtga	ggagtgggga	180
agaaatgtca	tcgctgtttt	cacctgcacc	cttgtttcag	agaagtgaat	agtcattcat	240
ctctgggtcaa	caaaatgata	atagtagcag	caacaataat	attctctttt	tttgagcact	300
tcttatgtgc	caagtacttt	atgtatgcat	tatcataaat	aaagcttttc	accattncct	360
taattctttt	attttt					376

<210> 425
 <211> 78
 <212> DNA
 <213> Homo sapiens

<400> 425						
agaaaagcaa	tgtcttgcag	tttgggtggga	gagagtatgc	agtcaccaac	atggcatgaa	60
tttaggagtg	aataaaacg					78

<210> 426
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 426
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 gtgcagatac tccataggtg cttaggagtg tnagtgttna gngactgctg caagaaaaga 120
 ggagatacga tctgatcact tagacttcaa atccaaacct tgaaaagtcc caccagtggt 180
 aggactcttg ccgccttgag agaacacagc tgatgtccgg aagcaatatt gntaacntta 240
 ccaataantc caatcaaacc ccaaaaaaaa aaggcccggg ggccattta ncttggantt 300
 accaggctga acttgnttaa aaggggggga 330

<210> 427
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 427
 tgatcctaga ccatccccct tcgcccttgt tctcaactgg ctgggaagat tcaagagagg 60
 cttccaacct gctggcagtg acggatggca gtgcagaggc acacaatggc aagtgcaggc 120
 gcgtcaccag ccttgacagt ggcccttccaa agaaagaacc aaagtcgaag tctgtcctga 180
 cagaggctga ttttaattaag gttatagcaa agggcagaac tgccctgtggg ctgcattctc 240
 tgcagagggc caaagacaat gcattaaaaa acttctcagg aagaaaaaac c 291

<210> 428
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 428
 atttctcatg gaaaaggacg gcctggagcc tttgaacagg gtctgtgtct tcctcctgtg 60
 tcagcaatgg gggaggaaaa cgagcgcact acgggggtaaa ggaggtcacc caagatctca 120
 agttcacgag tggcagcctg gattcaagtc cctgcctgcc tccagaacct gagctctgaa 180
 acgctggact aatcagaacc tcttggccct gaaaaatgag gcctattgaa cagagacatt 240
 tgtaagaaaa gggactatta caacctattg taaagtaaca agcaaataaa aatgaaatg 300
 gcc 304

<210> 429
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 429
 gcgattactt taaaacatga aagaaattgc accttttcct taagggaag atggtgctgt 60
 gggctttcct ctctcctgat gagatgatgc aaatggactc catagagaaa cgctgcccg 120
 gtaacaatgc agttacgcaa cccggtgcat gacacatgaa ttgcagcgca cctgagatcc 180
 tgatgaaatc ctgggagcct ggagctgtca aacatggttt taaaaaataa agggaatata 240
 cccagccc 248

<210> 430
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 430
 ctgctccgtc ctgtccggag gcttcctgaa ggctgtgtt ctcacctgcc cttagtggga 60
 aaccttctat tcatctgatc tattttcttg tgggggtggg caagggggccc attatgtctc 120
 catctccctt tccaagctcc aaagatnadc tggtatgggg gcttgccatt tgtaatctcc 180
 accaaaaaat tcattattgt tggaaaagct tggattattg gattttgggg gaccttgtgg 240
 ttccttgccc aaaaatccca ttgtccaaaa ccgcccattg gtgggatggg tgggtggcttt 300
 tcccttttgg cctttcttgc catggatttg gaaaaagttt tcccttggag ggccctcccc 360
 aagaaaagcc caaagaaaag aatggcccgg tccattgcct ttccttggtg acaagtcctt 420
 tcaaaaaaaa cgaaatggtg gtccaaattt aaaaatcttc 460

<210> 431
 <211> 176
 <212> DNA

<213> Homo sapiens

<400> 431

tctcagcgga	tgatcttata	tcttgctaca	tctagaaaaat	ggaagccatc	agactccatc	60
ttctcaccac	tgaggctaca	aaagatatct	acacctgcaa	ccctttccct	ttttttcttc	120
ttcccttttg	ttatgatgta	taaagtgtcc	cttatctgat	aaagagctaa	tcattc	176

<210> 432

<211> 301

<212> DNA

<213> Homo sapiens

<400> 432

gtgcctcggg	atgggaaaact	tcctaagatg	ttgttttggc	tgtaaatcat	gcgggccctct	60
cagagcaatg	catttggtg	atttgcccaa	ttgtgcatga	gtacagtcag	catggaaaatc	120
cagttcaaac	tgagaagat	cagcacctgt	gagctgaaat	gtgcatgtgt	attttacagg	180
gtggaggata	gtgaagacag	attcaagcga	taatacatca	ggtttaaata	ttctataaat	240
gagattggat	tactgcagct	gataaacatg	gaaatgagta	attaaaaacat	gggtgtgtaag	300
g						301

<210> 433

<211> 443

<212> DNA

<213> Homo sapiens

<400> 433

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gaactaccat	cctccccgct	ctccggatgc	tcccacagcc	tgggctcccc	agtgcagagc	120
cagcaccaag	caggagatgc	agtacagtgt	gcccaggacc	atggcagcca	tcacatatgc	180
cctccactgg	ggaacaagaa	gtgcgttagg	ctgatgtact	ccactccacc	tccatacgtg	240
tttgtgcagt	gacaccagcc	tggagggcct	tctatcgcca	tctccctcct	ctgtaaatcc	300
taccactct	ttgagtcttg	gncccagggg	ctgntgctct	ctntntctca	aatgatttct	360
gtgttctcat	ttgtctctgc	cttctctggg	aatctttggg	gccacagggt	aatctcctgt	420
gtgtcactcc	tgacttcgga	agc				443

<210> 434

<211> 288

<212> DNA

<213> Homo sapiens

<400> 434

ccgtgcttcc	caccaagggc	tcttgatgg	aggtgtcaag	gtgtgaagac	acagcccacc	60
tagagaggag	agactgctga	cctgctaact	gaaaatataa	gcaagccctg	acatgccaca	120
ggccgtcgga	agagacattt	gcttttgagt	acccagccta	ttctactctc	tgacttatgt	180
agatgggaca	aatgggtgcc	tgggcacact	catctacaca	tcagcctgaa	ttagctagta	240
aatcacaact	gcagtagcta	ataacagcca	taaagccttt	tgaatgtt		288

<210> 435

<211> 383

<212> DNA

<213> Homo sapiens

<400> 435

ataacagcac	tatgggaagg	aggaagaatt	taatgaaagc	ttgtacctgc	tggctgaaac	60
taagcagcct	atttataaac	tgctctgaaa	tgccagggag	caggtaactc	ccaaatgaaa	120
aagcaagcag	gtctctccca	ccatcagtgg	gatggctgag	ctgtctgtgg	tgcttttgca	180
tcttgctgct	tcgctgacct	tgaaggctcg	ccccagcctc	aggcgaccaa	gcctacagcg	240
acctcaagga	gcagctgcct	catcagtgtc	tgtaggaggc	tcaggatgga	gaggggtctg	300
atgcccccat	tttgttccct	tcttttgtct	tcttttgact	tccctaggga	agggaaaatg	360
tgctatgaag	ttaaaagagg	aat				383

<210> 436

<211> 251

<212> DNA
<213> Homo sapiens

<400> 436
atagaaaaga agataaacac tcaccgcaga gagttggctc catgtggatc tcaatggctt 60
atggtgaatc acaatttttt catctgactt ctgttctttg ggctctgact cttcatcaga 120
atcaatgtca agggccttct ccttgtagtt ttgatacagg acagcatttt ctgcaagaaa 180
acaaggccta tgtgtcacta attgttctca atcattatgt tacttgttct aaataaacat 240
catatgtacc c 251

<210> 437
<211> 220
<212> DNA
<213> Homo sapiens

<400> 437
gtggcttgaa atttgaaaca ccatatgaag gttggggagt ctcagggaca gccagctgg 60
ggatctgaag ttgctggaga agattttgcc taggctggcc agcaactggc agacaagagt 120
catcctttca caatgctgga gacagtagac cttcttcagg accacaagca agtcaccatc 180
tctgggtcac agcttctca attaaaaagt tagaagatag 220

<210> 438
<211> 229
<212> DNA
<213> Homo sapiens

<400> 438
gccctggcaa cnactattgc cttttctgct tctttgagtt tgactatcat ggatacttct 60
acaaatattg attttcaaga tcaggaaaaa taccgggacc agaagacaaa tttcagagcc 120
acctaaattg tggagtctaa taaaagattc ctttctccta atgatgtgac catccaaagg 180
atacactctc agtgtaaacg taaaccaga ataaaatttt atcatcacc 229

<210> 439
<211> 309
<212> DNA
<213> Homo sapiens

<400> 439
cagttttctg cacctgcctt ggtatttgac aactccagcc aattttccac ttgcttcctc 60
accaatgctt cttcagcttg aagactaaca tctagaagag tcatgaagtc taaagtcaag 120
aggagtctta tcttctagaa agtttttcaa acatcccaac ctcaaaaagt ttggctaaat 180
ggtgttcttc tacagcccca cacatgcaaa catctttatt gcacttgtgt cattattttt 240
tcttcgtata tgtgnntttc tataagtaca tttatatgaa ggnatatttt gaaataaaga 300
cacttcctc 309

<210> 440
<211> 756
<212> DNA
<213> Homo sapiens

<400> 440
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tggggggaaa ncaaacgggt ttnaaataaa ctnttnatat anaccccccnc cncctttggg 120
aaatcngggc catttnacna aaaaatgaan tnggcnccca agggttttcc gggcccgttt 180
ggggtggnaa aaggctnttc cggttttgac tgggggcaca aacaaaaaca aatccggctt 240
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ctcgacgttt gccacttgaa ancgggaaag ggactggctt gctattgggg cgaaatgcc 480
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cttgatgcca atggcgcggt ggtgnatacc ctttgatncc ggttaccttg gccattcann 600
caccacaacc aaacanttgc attcgaaccg aacacgtacc tcggaatgaa acccggcntt 660
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756

<210> 441
<211> 599
<212> DNA
<213> Homo sapiens

<400> 441
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atccatgaga agggccccgt gtgactgcag aggcaggaaa ccagggtgtca gtggagacaa 180
aggagtcctc ggcgcgtgaa atgggacttg gagcagggcc cgacgggagg ggacagagga 240
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ggcaaggngg ntcacacctg taatnccacc ttttggagnt gacccggcag ataacctga 599

<210> 442
<211> 512
<212> DNA
<213> Homo sapiens

<400> 442
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ccnaccnttt tggnaagtcg aggcgggncg ggntcacgaa ggccaggagt tcaagaccag 120
cctggcctat atggttgatc cttctagtct cgtggcagaa cttttagtag accaagcgag 180
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gctgacaggg tgtattgggg cacacacctg cagcatccag ggactccaa ggagaggggac 360
gtacttttga ggagaagtct aaaagtctaa gtccaccacc tgaacttggt gggggaangg 420
cttctatacc aagagggctc cccgcctgtt cttaaaagcc atttaagcag aatgacgtgg 480
ctcttcaata aagtaaaaaat gggtcattgt gg 512

<210> 443
<211> 223
<212> DNA
<213> Homo sapiens

<400> 443
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aatggaaaga atctgagggt tccactaaaa gccaatacta tcttgccagc catgtgagtg 120
agtcaccttg caaatggatc ctccagccca tcagggtctac aaataactga agcctcaagc 180
tgacaacctg actgtaattc cataaagtca taattgacca act 223

<210> 444
<211> 618
<212> DNA
<213> Homo sapiens

<400> 444
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ccgcctccca agtagctgga actacagatt ttaacaatca gactcaggtc aacagtgggtt 120
gagataatgg ccataaattg gctccagaat gcaaactgtg catttctcca ggattccatt 180
agtcagaaat gacaaggatg ctccctgccc ccacctccct cacaagatgg ctccccggg 240
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ctattggagc agcatgaaca ccttgctggg tgttcatgag ggagaaaagc tcatgaagga 360
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tgatctgatt ccaccacata ccaggtaact cagcataatt caaacattcc tgcaggaaaag 480
ggtcataatc tctgtcttat taaagtccaa tttatccttt aaatgaaatc tactcacagt 540
cctgcagatg aagactactt nctgcccagtg accacagcgg ctaagangct gaggcaggag 600
accgcttgac ccagaagg 618

<210> 445
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 445
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 tgttgagaac atagcaaaag cagctcttct tgacaaaaat ggaaagaaac atcctcaagt 120
 ttcagtgtc aatatatttt ccgatcaaga ctacaagaga tcagtcatta caatagcaac 180
 ttctgttgat aagttggtgg acaagcgcaa ccaagcctaa aggcaagtgc tgttgcgagg 240
 tcgacatcca ggaaccagag gagggcagag caatccacag aatggatctg gggtgactca 300
 tggaggaaaa ccaacacaca gtaccattta attcttttta aaaagatgga aaattatacc 360
 ataccngaa ttactaaatt cttaaaagag ggggtttntn gcattccatt tgnaaaanaa 420
 ngtttcccca tgttctttta aaaattcatt ttaaaccac 459

<210> 446
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 446
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 acaccactgg ttttcctggg tctccagctt gtagatgact aatcatgaga cttcacagcc 120
 tccataatcg gaatgaaaac aatggctagt cctggattgg tcatctttaa ctttgatgag 180
 atgctgaaaa tgaaagccag gactgagggg agattgaagg agtctgaacc tctgacaaca 240
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<210> 447
 <211> 635
 <212> DNA
 <213> Homo sapiens

<400> 447
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 ttngaantnt gcctgtccan atttgngggc cagagattta gaccctcatc ctcaaggcct 120
 tattcctcac aaaagccata tgtaaaactg gctgctccac aagggtctggg atcctgtgtg 180
 tctcattccc cactgtgtca tcaagtgtcc agcacaaaac agagctcagc aaatgcttgt 240
 cgaataaatg aatgaaaacg tgctcagcac agggaggtaa aggcaccagg accccatgga 300
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 tatttctctc tacagtttct gaagatggac ccagcccaac acttctttcc atgcctggct 420
 gtttttaact gcaggcacag cactagctgg tttgtctcaa agattatggg tcaaaagaga 480
 actgagagac aggcaagtat cccncggct ggacatactt tacttgccgg caatacatag 540
 tgctcttctt gcctgacaat tcgaacaagc agcttgactc tgtatttgag gccccactcc 600
 cttttggcta actagaccan actaatctac tcatt 635

<210> 448
 <211> 81
 <212> DNA
 <213> Homo sapiens

<400> 448
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 gccccctgca caaaaaaaga a 81

<210> 449
 <211> 616
 <212> DNA
 <213> Homo sapiens

<400> 449
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tctgctnaca	ttctgagaga	tctgcactcc	aggcaccttc	tgtggacatc	aagctcacgt	120
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tgteccctcg	tttattcaaa	catggagttt	tctttcctat	ttatttttgt	ttgctggcat	240
ttttagagat	gagactgcag	aagaactttc	ttactatgcc	attttaaaaca	cagctatctc	300
atgatttttg	taaaatccag	atataattgn	tgntttttt	tattcttgcg	taaagtgtga	360
aatcttgcac	accttcacgg	nattttgtaa	tcagccccc	ctatttcac	ttcatcttct	420
gctgcttnt	cccacaactt	ttgtttggct	acaagatgat	atcataccaa	atcctcagtg	480
gcaaaatgtg	tttctnctga	attcataaca	taaaaaaanc	cattaaaagg	ggggtangca	540
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atcaaagggc	aacaaa					616

<210> 450
 <211> 617
 <212> DNA
 <213> Homo sapiens

<400> 450						
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gaaatccatg	cacgttttcc	tgcaaacgcg	cgcgcgcaca	cgtacttcgg	cgggcgcccc	180
cgtcctctgt	ctcaccaaca	gacacagaca	tttacacttc	taggccagga	aagcgctaac	240
cagggccctg	tgactctacg	caggttccag	aacacgcctt	ctacatttgt	tactgaaccg	300
atcagcgaac	acagacaaac	gtgccaacac	ttaaagtcta	ctggctggac	ttcatctnca	360
tgccaacaaa	gcatggaang	naaagagttg	atttcagaag	gaactgngaa	gaagcncaac	420
aatngnccca	gtgataatga	gtagnaccta	tgngggactc	ttnancttaa	angantggca	480
cgaaagatta	nctttnttat	tgctctngac	aaaaaaantn	gnntttnttt	tgngngggaat	540
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tgningcatgg	ctcaatt					617

<210> 451
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 451						
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gccaagatgc	ccagtgcagt	accagcaaga	tggccaacgc	ctagagctcc	cttgttgatc	120
tgaaacctcc	ccttttcctt	acttctccct	ctgttcagaa	tgtgtagact	tctctaagct	180
ttgttaaacc	tgtttacaac	ttc				203

<210> 452
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 452						
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gatgcagctg	gcttactga	acataatttg	ctattagcat	cttcaggaac	acacactgct	180
ggataaattc	ccttcagga	gaggccacaa	ctgaccacta	catggaagag	acagctgctt	240
cttcactagc	caatgaggca	tccccaccca	agtgtgacca	aatgcctctg	aggctcagcc	300
cctcactcca	gaatgcccc	aggtacctga	ggatgctcca	gatttggggg	ctgcaccgtc	360
tgtggtttct	ctacattaaa	cagtattttt	gtggagtcag	gggtgaggga	gtatgggtta	420
cttttaata	taggtttgcc	aactc				445

<210> 453
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 453						
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ctctcactga	ccaactaagt	gactgggtac	aaattaaaga	ggagaatttg	aatgtctggc	120

tgtctgggaa	ataaaaggtc	agagagttga	ttagcaccat	caagcccca	taccagaat	180
catggagaga	aacagtggct	cggacctcta	agcggcacct	ccaatgactt	tcttgcacct	240
tgggggattc	cctcgcacca	ttttttatcc	cattgcccct	tctgtgccag	tctcttcctc	300
tgcgaggaag	tggtttgaga	accctaaaaa	cgaatccaag	gaatcctttt	tgtttggggc	360
agttttctgc	aggcaacatc	tgtgtgcac	ttagttgtca	caggtctggg	caaagttaga	420
gatgaataaa	ttttaaaaa	aaacaactac	aaaaatacac			460

<210> 454
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 454						
gccctgccac	catgccatga	ggaaatggaa	agaccacgtg	gagtggtcac	atataaatgt	60
tccagccacc	agcctcagca	gaggtcccag	cccacagtca	gcaacaactc	cagacacgtg	120
agtggcagca	agatgatgcc	agccgcagtt	accatctgat	tacaacttca	taagaaaccc	180
tgagcaaggg	ctgcccagct	gagttcaagc	aacgccccag	acctgtgggt	gatgataata	240
aaattattgt	tgttttgagt	c				261

<210> 455
 <211> 591
 <212> DNA
 <213> Homo sapiens

<400> 455						
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ttccactaca	gctgagtcag	aaaggctcgt	gccccgtggg	ggcactagac	gcagtggacc	180
tggcaagcaa	atgtttccgc	tattagctct	cagcaacaga	gactcattta	tggtcacctt	240
ggaaatctgg	gcttatcgat	ctacagccca	agtctgctga	gaagctggag	cttactaaag	300
gggaaacctg	agagctgttc	aagccccaaa	tattttccac	ttctgcgtca	cctctgctgt	360
ctgttagcag	agtggaggag	aaaatacaca	gcacaaacaa	cgtgaaaaaa	tagttactct	420
attcattaaa	agctgtaact	tccagattgg	acttgagaag	cattaaagca	acagaggacc	480
ctcatctact	atctgtattc	aagcatgctc	atgaaaaaca	cgctgctcaa	ctggacttan	540
aaggaacccg	ngcatnacan	gcattttctg	acagaatctc	gtgggcctgg	t	591

<210> 456
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 456						
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ggcctgagtc	ccagctagca	aacagcaaag	ccatgatttg	gacagaagcc	tgtgtgactc	120
caaaacccac	gctcttttca	ctgtgatgca	cggctaatac	tgagctgagt	gatgggaagg	180
gagctctctt	tgngggattt	tcangatacc	ttcaaagatc	angntggntc	tgtttgcaga	240
cccaactttg	caaaggacaa	gcntgtgtct	tnactcacac	tanctcggcn	caggttctga	300
gccctttttg	aatnggaagt	tatttaacct	gatcacanca	aaatgaaaga	ttatttgaaa	360
accnnggatg	tgaaattctt	ggaacccaaa	gaaaattatc	ccatgnntct	ccaagnacct	420
ttgccacccc	ttgtggncct	gctaggnca	atggacccca	aacctttcca	gaaga	475

<210> 457
 <211> 145
 <212> DNA
 <213> Homo sapiens

<400> 457						
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agcttctcca	gtgattgatg	tcagcagctc	acccganagc	caagaacatc	anaggtggga	120
tgatgatgct	ngtggctatg	agaca				145

<210> 458
 <211> 434

<212> DNA
<213> Homo sapiens

<400> 458
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tactccctc tgtctcatcg aggagaatgc tccaccagg agcacagaat gaaaggcaca 120
gagtatagtt tccagaatcc ccgcattttca gtgttcccaa agggctgaat tcttgtcaat 180
agaatgtaag tggaaatggg ctatgtcact ttctgtctga agagggttaa aagaagggtga 240
actctcttca tctgcagttc ataagataga aggatcccgg gtccctgaat gacctcatgg 300
aaggccatct aacaggaaca cccacattgg actgtgatat gggcaagaaa taaactttaa 360
ttgcattggg tcagtgaaga gttttatctg ttacggcagt tacttctact ttaataaata 420
caatgcatta tctt 434

<210> 459
<211> 493
<212> DNA
<213> Homo sapiens

<400> 459
tctggggagc tcttgcatta agtgagganc tgangaaaca ngcantanca accagaagac 60
aggaggcaca agaagttagc aaagaaagcc acctacttct tccgccttaa tttctctaag 120
cacttatcaa gcagaagaat cacagaagaa tacaataaat ggtctagaaa ctgcagtgat 180
gatttactaa aggaagagcg tggttcccg agcaatggcc ccactcctcga gcccgagac 240
ccactgccct aaatgaggac agacatttgt ttttgcactc aaaaaagtgt ccttgtggct 300
cgccatgccc cctaattctt ccccaaata aactcgagac cttagcgggc acgcactcaa 360
gtggctgaac atggagacca gcagaacagt gccggcgga tgacatggcc gagaaagaga 420
gaaagangag ggacattttg gacccaagg gaaatttggg ccggggtggg tngaaaaaaa 480
atttggccct tga 493

<210> 460
<211> 404
<212> DNA
<213> Homo sapiens

<400> 460
aggcccagga gaaaatatga aaaaaattg gtgaaggcca tcaccagacc tagcagttgc 60
atcctgttca gcaccacaga cagctccctc gcaaattgcca tcctttcaaa aggtaccata 120
cagaagacag ctactgagat tctgcagatt ttctaaaagt gacatttcta ttacacattt 180
cttcttttca gcaactgtcat atgtaattgg atgcattatt gcgttgtgta cattttgtga 240
taccatcatca atctgtaca ctacccatt aatccattca ttcaataaaa tacattgtta 300
tgtgccagat actcttagac aagtcactta cccnttagc ttcatcttct taccctaaac 360
ttngggatca ttatacatgg ttgataacta aggaaaggat tttg 404

<210> 461
<211> 583
<212> DNA
<213> Homo sapiens

<400> 461
gatctccacc atctgggggn acacggggaa ctggnacntt gggnggggccc tcaanaactc 60
cttcaacnaa ccctttccac tggcccgaac ttnttgtgca ttncacaag cttggcgacg 120
gggtggatgc cttgcctttg gatgggaaga atccttgcaa gtcaagacta cattccttgg 180
caccaagggt gccaaagccc gtaccgaact tggcttggaa gcttaccttg ggcaccaaga 240
aagaaatgga cctttcttct tattgaacaa tttcttcaaa cttgggcca ngggttcact 300
ttcaaacctt tcttaaaanc ttggnntncc aagcccacac caagtcaagg gggaggtctt 360
ccttgggtatt ggaaangnac ttggggtnng ttttgccttg aaaccgggct tggaaattgg 420
aangggcccg gggaaaccgc cacccccacn ttaccacacc ggtngggng gaaaattggg 480
gcattttacn aaccgnaaac aaagtcccc ttggcatttg aaattcccct tnttttttgg 540
ggggaaanaa agtncccccg aacnttgggc aagaaaccgg aac 583

<210> 462
<211> 339
<212> DNA

<213> Homo sapiens

<400> 462

agaaaagtca	gcaaaaaactg	cacattatac	agggcgacag	gcatggcagc	agtttctggt	60
gcacatgttg	cctgtctccc	ggtgacagaa	gataacagag	gactaagagc	gcacatatac	120
ctcaagagcc	ctaaggctgc	cacaggaggg	taaacaactc	cacccagcac	tgctccaggc	180
cggcacaacc	atcaactttt	catgagcggg	cccactggct	gctgtctgga	atgaagaatc	240
ctatgttgct	ttccagcctc	acatttcccc	tttgtgtact	acaaaatagg	agctgtttca	300
ttagaaacat	aaaacaatga	ggaagaagct	gttattgac			339

<210> 463

<211> 662

<212> DNA

<213> Homo sapiens

<400> 463

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aanatgcttc	aanggagggg	gccaaaggaa	gtggctnttg	cttggggggc	gccccacaac	120
ccttgctccc	ccgatgtcca	cccggtggatc	cacatcccgc	cagccgaaga	cctcccgtgc	180
cttggaccat	tgctgtcttg	ggtccccttg	tcaaacaccc	ttctttatgg	aaacaccttg	240
cttgcccttg	ggctttcata	agccatttcc	gccctacttc	ccgtggaaaa	gttctaaggg	300
gacaagggga	aagaaatggg	gtttgggcgg	aaacgttgga	acccgggggg	ccccaaaggc	360
ccttaattgc	ccttnccacc	cggcccaaan	gtnggccctt	ggaaacattt	cttngggggc	420
cccttngaatt	tttttngggg	gcattncttt	tcattggaaa	caattttctt	ggnttttnatt	480
tcaatcaatt	tcccaaaatn	ggtttggggt	cggttcccaa	nggcccccaa	nccggaattt	540
gnaattaaan	gggannnggc	ctttcntttt	ntaangggcc	caanggaaag	cntntttggc	600
ccccggnngg	aaccttggtt	tttnccacc	gtaacctntt	tatttttttt	ccatttttcc	660
tt						662

<210> 464

<211> 459

<212> DNA

<213> Homo sapiens

<400> 464

ataaaggaat	actagacatc	aaaangttta	ttacggngan	ggacatatag	tcaccttcc	60
agtttaagat	ctaagagcaa	tactcaaaca	gaaatcaaat	aaatgtctat	gacaattaag	120
gcaaacatac	tcatTTgtct	acaagcaaa	agcatttttg	aaagaacact	cccttgttca	180
aattttgggtg	aactgggtgt	ggagacaaaa	gtgactccat	cttggatgct	aatctgccat	240
gttgacttct	gattaacccc	agtctgggga	atgcctctaa	gatttctatt	tttatttatg	300
tatactgtct	gtaaaccctg	ttcttaggcc	aagacaccct	tgatgttatc	aaatcctgcc	360
cttaggctat	gacacacata	acattctttc	ctttttcttg	anaggggggg	ttcaattggc	420
cttatacatt	cctntntaaag	cacatatacc	ctttctctg			459

<210> 465

<211> 476

<212> DNA

<213> Homo sapiens

<400> 465

gctataagga	tgtgttttact	gcagagacaa	acagtaagaa	agtatacaaa	attaaagaaa	60
aatgacagtt	atctttacct	atcacttcaa	gttattttctg	tcaagaggta	atgacagtta	120
ctgaaaaaag	aagttctgga	cctttttcat	ttgcaaactt	atttttacaa	atggcttctt	180
ttcacataaa	ggatttggtga	tggtttaatt	ttgtgtgtca	acctggctgg	gccatagtgc	240
ccagatatgg	agtatatcat	tgttctggaa	gtttctatga	aggtgatttt	tgatgaaat	300
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cccatcantt	gaaggaccgg	gccaaaatga	aaactgancc	ctttgaggaa	naaattctcc	420
aancanatgg	cctttggtct	gtttctctgg	agaactngna	ctaatacagg	ttcttc	476

<210> 466

<211> 218

<212> DNA

<213> Homo sapiens

<400> 466	
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cctcanaagg ccagccaccc tcaanggagc aaccattgg ncccagactt ntcgcacgga	120
tgccagaaaa acttttnaatt ggaaggaagg cttgaaggtc aacaatgggg naaanaagtt	180
ttttaaaaaa ataaaaaang gggagcctaa tattgttg	218

<210> 467
 <211> 82
 <212> DNA
 <213> Homo sapiens

<400> 467	
cccgtgcatg gtggcttgtg cctatggacc cagctgctca agaggctgag gtgggaggac	60
tgcttgagcc caagaagtcc aa	82

<210> 468
 <211> 90
 <212> DNA
 <213> Homo sapiens

<400> 468	
cacttttggg agggccaaac aaagaangnn ttggttngac cccaggagtt tgaaaccaga	60
actggacaac atagtaaacc tcatccctac	90

<210> 469
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 469	
ataataagat ccttgaaagc aggcctgaac caccattgta caataaacat ttcctgcatg	60
aataaattaa tgaaagaatg aataataaaa caagatctct tcccagagaa agtttaaagc	120
ctctgaagac agcagacatc catttgaata accacataac aaagtgaatc atttatattg	180
caaaagacag agaaagcatt atacttgagg gcagaggagg gagaaagcat attactcaaa	240
taaagatgtg atactgaatt ag	262

<210> 470
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 470	
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aggaagcata accagagtga atcgattcct tgatcctgct ctgccaaaaa attaaagagg	120
agcactcctg gggtttttaa cccagataag acttcagcca cagccgtatt tcccatgttc	180
ctggatctct tgttctggct cttattctgc ggataaaatg tggaatagag taagcagtgc	240
gagttctgcc ggttcatctg gcttt	265

<210> 471
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 471	
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cgtcaaatgt tgcgggattc ttgtaagcac agagaactat gaagacctga caaggagggt	120
atctttttct ttcattgctt tccaacaaga gagcacattg ttagtgtgct tgaattccaa	180
caaaagaagg catagaatga atcttggttg ttccctttta cttgctaaat atgtactgaa	240
tgaataaatg gtgcattata catctatt	268

<210> 472
 <211> 456
 <212> DNA

<213> Homo sapiens

<400> 472

cctgtctggg	acctgcctgc	agatttccagc	cacttctgga	tacacctggg	acagggctga	60
tacctccact	gtcttacact	gtgaagagcg	ggacaaaccg	atgagtgaca	gactactgaa	120
tcaatccccct	tttaagctgc	ttaagttcca	gatttagttt	taaagagaaa	aaaaattgtc	180
atcttttttaa	aaagactgca	tcttctttct	cctaatagct	aataatttatt	gagcattcat	240
gacacgtata	cactatttta	aactgccact	gtgggttgat	gtcactcccc	cattttataa	300
acatggagac	tttggttaact	ttctaacagt	acttggccag	tcagccaggg	ctgtgctctt	360
cagagggcga	atggggncctt	tatactacca	cctaaaggcn	ggtnggatga	ccatccctat	420
aactttgttt	ttaattnaag	acaaacatgt	aattag			456

<210> 473

<211> 170

<212> DNA

<213> Homo sapiens

<400> 473

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ggccttggag	atagagccca	gctttttcat	tgcgcaggtg	gaaaactgag	gccagatgcc	120
gtgggacaga	tgacagagaat	gataaagtca	ccaaatgacg	gtgattattg		170

<210> 474

<211> 467

<212> DNA

<213> Homo sapiens

<400> 474

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ggtactagcg	ccccccagcg	tctggattga	gaaacgcacc	ctgcgagggg	ggagaaccag	180
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gcgttcgcgg	gnttgccant	tttttaaggt	ccaaccctgg	cttgtttttg	ggnnaaaaac	420
naaacnaaa	cccccaanga	attggncctt	ngggtcattt	ccttggg		467

<210> 475

<211> 440

<212> DNA

<213> Homo sapiens

<400> 475

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gacttacagg	aacggtaaag	ccctgtgatg	aatgtcctgt	tttttcctca	ttcaaaagat	180
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ttcttctggg	agaattaagt	gaaactgcat	gcaacaccat	gttaggcaca	ctagaagtga	420
tcaataaata	ctacttgagt					440

<210> 476

<211> 438

<212> DNA

<213> Homo sapiens

<400> 476

gcateccattc	accangcatc	ctcagcccct	gctatggcct	ggctctcttg	ggtcagcttt	60
gttccctgcc	tgcttctgc	tgaggaatca	gggcagtggc	gggggcggcc	ccaccagccc	120
gcagtcactg	gcccagacac	agcgtcggag	acaacacccc	ccgcttccca	cagctgctga	180
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gtgtgcatcc tactctgctc acagtggagg catcttttga agaagtgact tattttctgg      360
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<210> 477
<211> 193
<212> DNA
<213> Homo sapiens

<400> 477
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gggttccaca ccgatggatt caactgaccg tggatcagaa ataccagaa aaaaaattat      180
atctctactg aac                                          193

<210> 478
<211> 345
<212> DNA
<213> Homo sapiens

<400> 478
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tcttgcatgc cagcacagac caatggcaat ggatgtctga atcactgggt taacaaggaa      180
aagaatgctg tgcttaagta gcaatgtctg ctctgagcat ggcaggagaa attattggca      240
cctctgtcag atatttgata tctatttctt aaatagaata catacatatt ctaagaacaa      300
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<210> 479
<211> 240
<212> DNA
<213> Homo sapiens

<400> 479
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ctgaccttta ccacgggtat aaccnactct ttacctcca aggcctcgctc atttgtactt      180
attttttctc attgtctctc aaatttancc aactggnatg aataaactgg aagtaaacag      240

<210> 480
<211> 504
<212> DNA
<213> Homo sapiens

<400> 480
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ctctncgttt natctccctc tactctnact ctgctgctac caagtcagac ttnttttcan      180
aatgcctgt atcattttta tgactggagt gtgactttgt tctcagcaca atgagtaaca      240
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ctttcataat acagnacatt anaatcagac gaagcctnga agggcanaat naccgatcct      360
gaaaaatcan agtgtntctac agaagaagac gacagcgttt gagcacattt gttgaagcag      420
cctcctntcc cttatgggnc gataatccca caccgnttta ccattgctctc tggccttccc      480
agaacatcaa taaaaactgc atcc                                          504

<210> 481
<211> 274
<212> DNA
<213> Homo sapiens

<400> 481
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gaatttcaga agacagagtt tgaacatcac tgacctttac catcgggtata accaactctt	180
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ctggtatgaa taaactggaa gtaaacagtt ctac	274

<210> 482
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 482	
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cagcagcatg gaaacctcag actgtaaggc ccaagactgg cacttgttct ctcccaactc	180
ttttctttct ctctctctct tcttttatcc cttaattcct tcttgcttcc ttccaagatt	240
tatactatta ccttttaggc aaaacatcct gaacatgtaa aataaactaa ttaaaatcg	299

<210> 483
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 483	
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cagaggggag aaggctggac ttgcagaaca cattgctgtt gaagaagtga caggaagatt	180
cagagctcac aaagaagaca ggtcagacgt ggagaggcga gccagcagaa caccctcaga	240
aatactgctc tcctgttcgg atggccagtt ttcatatattt agaatatattt tcaaaaagca	300
cttcaatata atgaagttcc ctcagttata acaaggccat ttttcatagc tatttgtgta	360
gatagtccaa aagtgtggtg tggtatcaga aaggg	395

<210> 484
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 484	
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agatgccctg cggctatgga ggagggccgt ccaagctcac agttcctaga agtttgtgtc	120
accatttcac atttagcacc agaatccagc cttggcagat tcaggggaagg aagccaagga	180
cacagctggt ggtgaagaca gaaactcctg tgtgacaact gcccctagg acacagttta	240
gggtcaatta acatttcctg aacaacttgc aaatggaaag agccatcccc aatgaagact	300
gaaaaatgag aggtcaact catctattat gacttgaacc caagtctatc tgtgtttgca	360
aaggctgtgc tgttgacact agacctccac ccagaaacat gttttggggc tgacatttta	420
atagaaacat agagaggaaa	440

<210> 485
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 485	
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ccttgtgttt gtttctctgc ccagatgaga aacacccatc acctctgact ttccaaggag	120
caaatcacgc tccgtgccgg gctcccccaa caacaccact ccctcttccc ttgcgatctc	180
caggntcct ttgacctt	199

<210> 486
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 486	
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caactccagc	agggaattcc	agaggtgaag	gtcacgggag	catctttaat	cttcggttcc	240
cagtagagaa	gatacccaaa	gagcagggag	caggagccag	ctccaggcta	tacatttggt	300
tattcatcaa	tcattcatTT	atgcattaat	cattcattcc	ccccacccaa	aaaaaaaaang	360
gccagnngng	ccaattcagn	tngnacttaa	ccaggctgaa	nttgntnaaa	nggggggggac	420
cccaaa						426

<210> 487
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 487						
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nggttcataa	agggtggana	cncccnttgg	gcgccctttt	tggggggggt	tnaaaaaaga	120
naaaatcctc	ttcntggggc	ccttaaaaanc	ccctcccttt	ggaagataag	gcnnngggggn	180
aacataacan	ggggccgggg	gcccccccca	ctttatttgt	ccccaaagcct	taaaattttt	240
ttttnggtaa	tttttttttna	aagnaaccaa	anaanggggg	gggggttttc	cacccaatgg	300
gtttgggncc	caaanaactn	gggggtcctt	ttggaaactt	cccctgggga	nccctcaagg	360
gnnggaaccc	caactttggc	ccttaaaagcc	cttnccccaa	aaaggtggct	tgggggggaat	420
tggcaagggt	ggttggaag	tcaaccacaca	cccttgacc	acaaggtact	aaataatttt	480
ggncctttaa	taaataagtn	aaaaactggg	atcatatgaa	aatttaatat	aag	533

<210> 488
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 488						
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gggggaaggg	aaccacccat	ttgttcggga	ggaaagaata	aggggaaacc	aagcctttta	300
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aagcttgggg	aaccgccttg	ggaaccgaag	aagttttgcc	attttaagtt	cccaagattt	420
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<210> 489
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 489						
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tttttctttt	ttccttttgg	ttttaaactt	tttgccccc	ccggggggtt	tcccaanana	180
acagnngngc	tttcaanccc	cgaanggnaa	tggnaatccn	naagtttcca	acaccacntt	240
gacttttccc	angggaaact	caaaagccca	agaagaangg	ggcccaangg	gacccaagct	300
tcgagggggac	accacaagcc	caggggggctt	cttttccttc	cgaaaacccc	caagggggact	360
tgggactttg	caagggggct	tggggacaag	aaggttgggg	ggttgggggg	gggaaaaagc	420
aaattgcctt	tgtcaaaccc	acgttggggg	ggaagcccca	ctcccatttc	ccaaggggtgc	480
attaaaagtt	tgaaggggaa	acacctcctt	gc			512

<210> 490
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 490						
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tgtntgcttt	ccggggccct	ntggngggng	gggtntttgc	caanncnttt	ttggaaaagg	120

gccnaancc	ccaacccaag	ggggaaccn	aaanacgttt	tccagnggc	ntnnggaata	180
aancttgaaa	gggaagtttt	gggaaaacac	acttgggnan	ggaacaaagg	gcttcgggga	240
aagcntcaat	cagccccgca	ttcaaaaaca	gaagtggaaa	cttttcttgc	caaagaatgc	300
cggggaagtt	gggtttttca	agaagacatt	ttcaagaaaa	agtggaaaag	ggaagaagac	360
tcaaaggatt	tgactcatga	agggaccttg	aaagggggtg	ggacatccca	aggaaaaggg	420
gcctcttgaa	aatttccac	accccaagcc	gccttggttg	ttgagggact	ccctccattg	480
ttgggccccca	gggtggccac	caaataaaaa	aatcctac			518

<210> 491
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 491						
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gatttgcaag	gaactacgaa	gtccaagacc	tttgcccttc	ttttagaaga	aggcaccagc	120
tggttctcca	atgttgaagg	tcttctccag	agatgaactc	tgaaagccac	atgttgagat	180
ggccccatta	caggatggag	agcacctgaa	cccccaagtt	atggactaga	agaagacagt	240
tgccctggaa	aatcatctga	cccacattgg	actttatgtg	aggggggaaat	aaacctttat	300
tatgttaagc	tacacaataa	taaataacaa	caataattgt	gttt		344

<210> 492
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 492						
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cnngggnaaaa	tgngngggaa	aagtcnctgg	cacntgnaat	ggccccctt	tgtanggaaa	120
aaannaaccc	caggggttcn	tgaggattcc	ncgaaccgtg	gggnncnttg	angggcncca	180
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agaaaaataa	aaaccttaaa	gtattgttaa	agcttcttgt	catttcaaag	gggtaaatac	300
caagttgtgg	gaaagggcaa	gaaaaaaaaat	ggaccactc	tccccttgga	tatccattaa	360
aaagatgtgc	ccaaaatcct	c				381

<210> 493
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 493						
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tnccntgaaa	aacnanggn	tttttngaca	ttaaagnnc	ttttaaggag	gtatgccccaa	120
aaaaaggnaa	ncccaacccc	ttngccaaa	aaatnaaacn	tcaaagangg	ggcnggcnaa	180
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ncagaaaaag	gtggnaaggt	ccacttggtc	ttttggcttg	gnctttggga	atcaaaggaa	300
ccnagaaaaa	ggaaaattan	ttggataccc	aatgggggag	ccttggaaga	atgccatttt	360
ggtttgggga	agggtttttc	ttgtcttcaa	acttgggtct	cttgacaaag	cctcttgact	420
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acggggactt	ggcttgcacc	tttccttgaa	gaaagccaag	actttccact	tggtatgggaa	540
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<210> 494
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 494						
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tgatcacgtc	tacatgatga	aacctctaag	tgacaaggat	cagagagctt	ccaagttggt	180
gaatacatcc	atgtgcaggg	agggtggcct	accctaacc	catcgacag	gagcaccat	240

gttcaggaat	cttctggacc	tcaccttatg	tattaatctc	tctttatctg	gctgttcac	300
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<210> 495
 <211> 613
 <212> DNA
 <213> Homo sapiens

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ttnccaaaaa	caaagcccgg	gggccttgga	nccccgggc	cttggttttt	aaaaaatttt	180
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atcggaaata	ttgaacaaga	acacccggaa	aaaatcaacg	aacttcaagc	ccccttccaa	360
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<210> 496
 <211> 611
 <212> DNA
 <213> Homo sapiens

<400> 496						
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<210> 497
 <211> 436
 <212> DNA
 <213> Homo sapiens

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gtttctggat	gaagaccctg	agcaggggat	ttgcactaga	aaccgccttg	cagaagttgt	360
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<210> 498
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 498						
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 <212> DNA
 <213> Homo sapiens

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<210> 500
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 500						
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<210> 501
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 501						
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catctgtgag	ggcccaaac	cttcaaattg	tgccccgttc	taaagtgtt	atcttaacct	420
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<210> 502
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 502						
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tggttcaagc	ncccaaaaag	naaaanaaga	ccctggngtc	nntttggggg	aggtggggng	360
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<210> 503
 <211> 185
 <212> DNA
 <213> Homo sapiens

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tgcccccttt nttngggggcc cttggacccc ttatatttggc cccttgccca ttgcttgggc      180
ccttg                                             185

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